# TERMINOLOGY VARIANTS IN THE PEDAGOGY OF NONHARMONIC TONES

MICHIGAN STATE UNIVERSITY
Thesis for the Degree of Ed. D.
Glen Cyrus Stewart
1964

### This is to certify that the

#### thesis entitled

Terminology Variants in the Pedagogy of Non-Harmonic Tones

presented by

Glen Cyrus Stewart

has been accepted towards fulfillment of the requirements for

Ph.D. degree in Education

Major professor

Date February 24, 1964

**O**-169



#### ABSTRACT

# TERMINOLOGY VARIANTS IN THE PEDAGONY OF NORMARMONIC TOMES

### by Glen Cyrus Stewart

This dissertation was a study of nonharmonic tone nomenclature, classification, and terminology variants used in music theory instruction during the first sixty years of the twentieth century. The study was limited to harmonic practices of the eighteenth- and nineteenth-century styles of musical composition.

Two hypotheses were established for the study:

- 1. Confusion exists in the analysis of nonharmonic tones, and in the classification and nomenclature used in the pedagogy of music theory.
- 2. A systematic classification of nonharmonic tones can be established to avoid the use of multiple terms and definitions, and to provide a basis for a standardized nonharmonic tone nomenclature.

The procedures used for the study include the examination of over one hundred harmony textbooks used for theory instruction during the first sixty years of the twentieth century. From this bibliography a select bibliography of thirty-two books was chosen which represents adequately the variety of nonharmonic tone nomenclature and analysis presented by music theorists for pedagogical purposes. A search was made in periodical literature and other sources for material relating to the analysis of nonharmonic tones.

A study was made in two areas related to the analysis and the pedagogy of nonharmonic tones to provide additional background for the study:

- 1. Symbols of communication in music employed in the instructional process.
- 2. Nonharmonic tones as a function of dissonance in the evolution of eighteenth- and nineteenth-century styles of musical composition.

The major findings of the study were summarized as follows:

- 1. A variety of terms is used to identify nonharmonic tones.
  To consistent relationship was found between the devices described and the terms or symbols used to represent them.
- 2. More variety exists in the definition of nonharmonic terms than in the choice of terminology itself.
- 3. No two theorists appear to agree entirely in the choice of terminology and the definitions of nonharmonic tones.
- 4. Most theory textbooks contain no systematic presentation of nonharmonic tones.
- 5. The confusion of nomenclature and the use of multiple meanings of terms is most extensive in those textbooks which present no systematic classification of nonharmonic tones.
- 6. Recently published textbooks devote more space and attention to nonharmonic tones and present them in a more systematic manner than older textbooks. There is no general agreement in matters of classification and nomenclature.
- 7. Monharmonic tones can be analyzed and presented in a systematic manner to facilitate instruction and learning.
  - 8. A systematic classification of nonharmonic tones is a

prerequisite to a consistent nomenclature.

- 9. A system of classification using a melodic approach and departure analysis is the most inclusive system upon which to base a nomenclature.
- 10. Terminology can be defined to avoid the use of a term for more than one basic device and to avoid multiple definitions of terms by basing definitions upon an approach-departure classification of nonharmonic devices.

A classification of nonharmonic tones based upon an approachdeparture analysis is proposed. A terminology derived from historical usage and authority is suggested. A definition is given for each term, based upon the classification.

The results of the study indicate that a consensus of music theorists is needed to establish a standardized nomenclature and analysis of nonharmonic tones. It is suggested that a consensus might be established through the offices of one of the national professional organizations concerned with music education in the United States.

# TERMINOLOGY VARIANTS IN THE PERAGOGY OF NOMBARMONIC TONES

 $B\mathbf{y}$ 

Glen Cyrus Stewart

### A THESIS

Submitted to

Michigan State University
in partial fulfillment of the requirements
for the degree of

DOCTOR OF EDUCATION

College of Education

1964

5 3-22-45

Music in general—and melody in particular—has been considered, since time immemorial, a supernatural, magical medium. Many great philosophers in different civilizations have given their attention and directed their thoughts toward this elusive phenomenon. The more definitions of music you know, the more you wonder what music really is. It seems to fall into the category of life itself. It seems to have too many "X's".

Joseph Schillinger

#### PACEAGE

The purpose of this study is to investigate the many different ways in which nonharmonic tones are presented and explained in present day teaching of music theory. The study is limited to nonharmonic tone classifications and terminology which are used in presenting the harmonic styles of the eighteenth and nineteenth centuries. The author has observed in his teaching of music theory over a period of years that there are many names for the same device, and also that one name may denote several different devices. Further, he has noted various discrepancies between the definition and explanation of some devices and the example quoted for their clarification. In short, he has observed almost as many systems of nomenclature for nonharmonic tone devices as there are textbooks of theory. An attempt to summarize these terminologies will be made, and also an attempt to resolve them into a logical categorization will be made--one that will have historical, logical, and semantic integrity and support. It is hoped that this study might contribute to the pedagogy of music theory by providing a basis for the elimination of diversity in classification and terminology, and lead to the elimination of confusion in the mind of the teacher and the student in the comparative study of textbooks.

To provide a basic frame of reference for this study, two related areas of concern to the classroom instructor in the presentation of nonharmonic tones have been investigated.

- The nature of musical communication in the teaching of music theory.
- 2. The historical evolution of nonharmonic tones as a primary aspect of dissonance in harmonic textures.

Through a clarification of the principles and concepts underlying the phenomenon of nonharmonic tones in harmonic textures of the eighteenth and nineteenth centuries, it is believed that understanding can be achieved more readily, and with greater economy of time and energy.

A preliminary bibliography of more than one hundred treatises and textbooks concerned with traditional harmonic practices of the eighteenth and nineteenth centuries and containing specific references to nonharmonic tones has been examined for the purpose of this study. The preliminary bibliography has been prepared from various library carl catalogs, <u>Cumulative Book Index</u>, <u>Subject Guide to Books in Print</u>, and advance publication notices of book publishers. An extensive search of periodical literature for related articles also has been made, with particular use of <u>The Music Index</u>, and <u>Readers! Guide to Periodical Literature</u>.

From the preliminary bibliography an annotated bibliography of

<sup>1</sup> Cumulative Rook Index: A World List of Books in the English Language (New York: Wilson, 1928-date).

Subject Guide to Books in Print: An Index to the Publishers' Trade List Annual (New York: Bowker, 1957-date).

The Music Index (Detroit: Annual Cumulation Information Gervice, Inc., 1949-date).

Readers' Guide to Periodical Literature (New York: Wilson, 1905-date).

thirty-two books in the English language has been selected to represent the diversity of nonharmonic tone explanations and the variety of terminology in use. This bibliography, with each entry numbered for convenient reference, is found in Appendix I. The author believes this bibliography adequately represents the degree of diversity currently found in the nomenclature and explanation of nonharmonic tones, and that a more extensive working bibliography would only tend to make organization of the necessary data more complex. Proference has been given to those books in which some attempt has been made to organize the presentation of nonharmonic tones, to those which are listed in Books in Print, and to new publications announced in advance publication notices. The textbooks which treat nonharmonic tones in some organized fashion generally are found indexed as "Harmony" books, as the presentation of nonharmonic tones usually is given in harmonic rather than contrabuntal contexts. The explanation of this orientation of nonharmonic tone presentations will be discussed in Chapter II in relation to concepts of musical texture.

The instructional process in music theory depends heavily upon systems of symbols and nomenclature for purposes of description and analysis to aid in the development of an understanding of musical phenomena. The intrinsic difficulty of describing musical phenomena is greatly magnified by the use of terminology about which there is much disagreement, by terms which are applied in a vague and ambiguous manner, and by terms which have multiple meanings. One is led to the

Annual (New York: Bowker, 1943-date).

conclusion that either musical structures tend to be ambiguous, or that the organization of subject matter in many tentbooks is inalequate for its purposes. The author has undertaken this study with the hypothesis that nonharmonic tone devices are subject to rational explanation which will permit more efficient and effective instruction.

#### ACKNOWLEDGLEHTS

I wish to acknowledge my indebtedness to Dr. Milosh Muntyan of the College of Education for his support and administrative supervision of this study.

Appreciation is extended to Dr. H. Owen Reed for valued suggestions in many details of the study, including the benefits of his research in nonharmonic tones, and to Dr. Douglas Campbell, whose patient encouragement and direct supervision of the study has been a source of much enlightenment.

A special word of appreciation is extended to my wife, Mae, whose encouragement and assistance has made the entire project possible.

## TABLE OF CONTENTS

	•							Page
PREFAC	E	•	•				•	iii
LIST O	OF TAPLES	•	•	•	•	•	•	ix
Chapte	er							
I.	COMMUNICATION IN MUDIC	•	•	•			•	1
II.	CONSONANCE AND DISSONANCE	•	•		•	•	•	9
	Historical Considerations Nonharmonic Tones Harmony vs. Counterpoint							
III.	MORHARMONIO TONES: TERMINOLOGY AND CLASSIFICA	TI	[CN	J	•	•	•	30
IV.	NONHARMONIC TOMES: TERMINOLOGY VARIANTS	•	•	•	•	•	•	47
	Single Monharmonic Devices Combined Monharmonic Devices							
٧.	SUMMARY AND CONCLUSIONS	•	•	•	•	•	•	107
APPEND	DIX I	•	•	•	•	•	•	115
APPEND	DIX II	•	•	•	•	•	•	113
BIPLIO	ORAPHY							124

## LIST OF TABLES

Table		Pa	€e
1.	Frequency Ratios of Intervals	•	14
2.	A Classification of Consonant and Dissonant Intervals	•	17
3.	A Melodic Classification of Monharmonic Tones	•	l;2
4.	A Rhythmic Classification of Monharmonic Tones	•	1414
5•	Basic Monharmonic Devices		L.7
6.	Variants of Single Nonharmonic Devices	•	50

#### CHAPTER I

#### COMMUNICATION IN MUSIC

Communication in music between composer and listener occurs in two ways—directly, through musical sound itself, the aural representation of creative ideas, and indirectly, through verbal and non-verbal symbols which are the visual representation of musical sound. Non-verbal symbols are the elements of music notation; verbal symbols are the terminology applied to the elements of music, including such factors as pitch, duration, intensity, tonal and chordal relationships, and schematic representations of form. These symbols of communication might be classified as primary—musical sounds themselves, and secondary—verbal and non-verbal symbols which represent musical sounds.

In the direct communication of subjective ideas through musical sound between the composer and the listener, particular combinations of sounds evoke emotional, or affective responses in the listener. These responses vary greatly with the individual, his mool of the moment, and the particular psychological associations he brings to the listening experience.

Susanne Langer suggests that symbolism in the art of music communicates an awareness of subjective feeling and emotion by giving form to inward experiences. 'A musical person thinks of emotions musically. They cannot be discursively talked about above a very general level. But they may nonetheless be known--objectively set forth,

publicly known—and there is nothing necessarily confused or formless about emotions. As soon as the natural forms of subjective experience are abstracted to the point of symbolic presentation, we can use those forms to imagine feeling and understand its nature.

Because of the diversity of backgrounds and experiences of individuals and the difficulty of symbolizing emotional experiences, attempts to communicate accurately the meaning of affective musical experiences are intrinsically difficult at best. For this reason, the understanding of music sometimes is regarded as being relatively obscure of access. This apparent obscurity frequently is increased by the confusion of objectives in the teaching of music appreciation courses.

The teaching of "appreciation" frequently is confused with the teaching of facts about music, contributing further to the sense of obscurity of music. Alan Walker describes appreciation as a psychological condition of unconscious identification with the unconscious musical ideas expressed by the composer—a communion of unconscious minds. This occurs independently of any knowledge about music, and the professional musician is not necessarily better equipped than the lagman to communicate through musical sounds.

The man in the street has proved time and again that given equal opportunities of assimilation his response to music can be just as vigorous as that of the professional. Indeed, the closer we examine current notions regarding musical education the more ridiculous many of them seem. No one becomes a doctor in order to enjoy better vision. Similarly, you do not experience music any more intensely when you have become an 'educated' musician. This is one of the latablishment's sacred cows and it has been my experience that nothing can budge it....

Susanne K. Sanger, Philosophical Sketches (Baltimore: The John Hopkins Press, 1962), pp. 62-63.

Perhaps when the findings of modern psychology have made a greater impact on our thinking we shall see the situation as it really is. Until then, we shall continue to understand music despite our educators rather than because of them. But if analysis does not play a crucial role in our response to music it nevertheless satisfies a positive need that the professional feels. He may still wish to know why he knows. This is the primary reason for his education and constitutes the only difference between him and the musical layman who simply knows. Once we have accepted the view that the role of analysis is to explain the experience, and not to prepare the ground for it, we see its province quite clearly.

Studies of direct communication of ideas through musical sound, the primary type of symbolism, thus are properly relegated to the fields of psychology and aesthetics. The realm of podagogy in music theory, while necessarily based upon direct, or awal communication, relies heavily upon the secondary aspect of musical communication, the use of non-verbal and verbal symbols, to provide a relatively precise describtion and analysis of the structure and texture of music. The grammar of music lends itself to much more precise description and analysis than do the affective responses to music. A specific technical device can be described referentially by a word which represents the device, to the extent that the word is tied down by definition. Consequently the teacher of music theory must have a judicious concern for terminology as a form of symbolism. The use of terminology having consistent meanings is essential to the formulation of concepts and the development of understandings. Verbal expression of musical concepts depends upon the meanings of words. When a vague or ambiguous terminology is used, efficient instruction becomes more difficult.

Traditional semantic theories treat communication as the original function of language and of all forms of symbolization. In recent

lAlan Walker, A 'tudy in Musical Analysis (New York: The Free Press of Glencom, 1962), p. 150.

years the general sementicists have reminded us that we use our cords too loosely, and that there is too wile a margin between the word and the thing which the word represents. The importance of commonly understood symbols and terminology in the understanding of the arts is suggested by Susanne Langer in her recent essay, On a Yew Definition of "Symbol". "Any sign, . . . by being conventionally assigned to any object, event, quality, relation, or what not that it is to signify, bestows a conceptual identy on that designated item."

In scientific discourse it is necessary that words be referential, as it is the thing which the word represents which is important, rarely the word itself. Buch confusion in music results from an attempt to identify the language of emotional expression with the language of musical science and craftsmanship. It is in terms of technical structure that music theory must be discussed, even though music theory is concerned also with emotional meaning.

The theory teacher is engaged directly in structuring the grammar of music and in establishing the terms of its vocabulary as a technical language. Attempts to structure and systematize the study of traditional harmony for efficient classroom presentation have advanced with a continuous evolution since music theorists began to have a primary concern with pedagogy about the beginning of the nineteenth century. One of the first attempts to establish a systematic classroom presentation of harmony occurred at the Paris Conservatory at this time.<sup>2</sup>

langer, p. 62.

<sup>2</sup>Donald Theolor Packard, "Seven French Theorists of the Nine-teenth Century" (unpublished Ph. D. dissertation, Department of Theory. University of Rochester, 1952), p. 300.

The official tentbook adopted was a work written by 3. S. Makel, Traite d'Harmonie. Pefere this time each teacher taught his own concepts of theory without the advantage of any generally accepted or standardized pedagogical procedums to guide his students. The Satel book represents the beginning of a continuing development of tentbooks designed for clauseroom instruction in theory, a development which has continued with increasing enthusiasm to the present time. Music theorists, in their efforts to interpret the practices of musical composition of the past to each new generation through class instruction, came to have a primary concern with the development of new tentbooks. The evolving flow of texts contributed to the colution of many pedagogical problems with increasing ingenuity through new organization of material, new classifications of tonal relationships, new refinement of terminology, and new instructional procedures to meet changing educational needs.

In discussing pedagogical problems in the teaching of the arts, Wager and McGrath state, "The student of art enjoys much greater freedom of subjective evaluation and interpretation than either the physical or the social scientists, but the intellectual processes by which he deals with reality are no less important than those employed by other disciplines." While the behavior of musical phenomena does not deal with exactly measurable characteristics, as do the sciences, analysis and description require a precise terminology devoid of ambiguousness and contradiction. In this respect the writers of texts and treatises on music theory have been particularly lacking in agreement.

Charles Simon Catel, Traite d'Harmonie (Paris: Heugel et Cie., 1802).

Willis J. Mager and Earl J. McGrath, Liberal Education and Music (New York: Bureau of Publications, Teachers Sollege, Solumbia University, 1962), p. 9.

The area of music theory which seems to have benefited leadt from the efforts to systematize and standardize the definition of hormonic materials for instructional ourposes is that of nonharmonic tones. The study of harmonic and melodic devices used by composers during the past three centuries leads in vitably to a consideration of nonharmonic tones as a vital aspect of musical testure. Nonharmonic tones will be regarded in this study as dissonant tones used as particular devices to create tension and motion in music. Various aspects of the term "nonharmonic" will be considered in Chapters II and III.

An examination of the mucie theory books in general use during the twentieth century reveals about as many different methods of explaining membarmonic tones as there are textbooks. Each confusion currently exists in the variety of terms used, in the divergent and contradictory explanations presented, even within the same textbook, and the complete lack of any standardized classification or definition of terms used. Examples are readily found in which the music illustrations used contradict the definition of the particular device presented in the text. To add to the confusion, multiple meanings cometimes are used for the same term. Examples of variants in terminology will be presented in Chapter III and Chapter IV.

The problem of effective communication has been a growing concern of contemporary educators and philosophers. A number of present-day linguistic philosophers regard a study of the way words are used as the best way, if not to solve, at least to understand problems. An

Review of Fly and the Fly-Pottle, by Ved Tehta, Jimo, July 12. 1963, p. 98.

examination of the different ways a word is used provides an insight into all that can be known about its seaming. Communication in rusical theory and pedagogy has been handleapped by the lack of a precise vocal-ulary of terms which have commonly accepted definitions, and which lend themselves to logical classification. The use of vague, loose terms generally has proved inadequate for effective instruction. The problem is being recognized by a number of the authors of recent textbooks.

However, little evidence can be found of any comprehensive investigation of the problem that might provide a satisfactory basis for its solution. No standardized nomenclature of nonharmonic tones and no standardized terminology has been agreed upon.

A study by Tarvin Chidester of some basic terminology used in the teaching of music theory shows that many of the textbooks in use today do not define the technical terms used for musical devices, and that frequently some terms are used in such a way as to indicate more than one meaning for the same term. This lester presents the hypothesis that the lack of precise definition of fundamental terms constitutes a serious problem in the teaching of basic and advanced theory classes. Chidester selected a preliminary list of sixty commonly used musical terms for consideration. From the preliminary list of sixty terms he selected a final list of thirty-three terms for use in his study. This study presents no explanation or basis for the choice of the particular terms used, and, as do other similar investigations, merely

Marvin E. Chidester, "A Study of Some Fundamental Musical Terms." (Unpublished Master's Thesis, Sam Houston State Teachers College, Huntsville, Texas, 1953).

It is of interest to note that the preliminary list of terms contains six commonly used nonharmonic tones, and that the final list contains only one—the organ point—which has the least diversity of definition.

describes the problem of terminology variants in some detail aithout presenting a basis for its solution.

The analysis of the function of musical language necessitates what may seem a dubious procedure from a subjective point of view, the breaking down of an indivisible unity into its component parts. The first step must be the examination of small-step examples of the total functioning of musical language. Daryck looks observes that by isolating the elements of musical expression and identifying the backs terms of musical vocabulary, we prepare the way for a larger unionatabling of musical communication. It is at this point, the identification of basic terms of musical vocabulary and the assigning of precise definitions to the various elements of musical structure, that the field of music theory is confronted with much vagueness in communication.

Deryck Cooke, The Language of Music (London: Oxford University Press, 1959), p. 40.

#### CHAPTER II

#### GONGONANCE AND DISSONANCE

The relation between dissonance and consonance has long been a concern of musical theorists and scholars, and is a basic consideration in the study of nonharmonia tones. Dissonance and consonance are manifestations of life processes evident in almost every assect of human exterience. The harmonic texture of music contains some balance of dissonance and consonance which is usually characteristic of a composer or of the period in which the music was written. To clear-out differentiation between dissonance and consonance can be made, except possibly through colification of the musical usages found in a particular style or period, and the arbitrary acceptance of a dividing line based upon accoustical considerations. In general, dissonance is created by those elements of harmony which give a feeling of tension or disturbance, and consonance is created by those elements which give a feeling of relaxation and rest. Dissonance and consonance can be thought of in analogous torms which represent energy in contrasting states of activity, such as dynamic and static. A frequently used, but inalequate, analogy is found in the terms unpleasant and pleasant. All such terms are extremely limited for precisely definitive purposes. as the terms indicate only relative or subjective relationships, as do the terms disconance and consonance themselves. Analogous terms suggest criteria for making subjective judgments about the relationship

of dissonance and componence, but the problem of description remains primarily a subjective matter.

As musical textures become more and more complex, the modelen of establishing a workable definition of dissemence becomes more difficult, and increasingly involved in the psychological phenomenon of affective musical experience. The particular balance between dissemance and conscious found acceptable in the musical textures of any given period is a lateralning factor in the evolution of musical otyle. The history of Western music records a continuous striving for a satisfying ratio of dissemance and consenance, a relationship which is never fixed or finalized. The human car exhibits varying degrees of telerance with regard to the amount of dissemance it finds acceptable. Thus, no absolute standard of dissemance and consenance can be established at any given time, with the result that the definition of any satisfactory relationship is shooly relative.

Medieval tradition attempted to define intervals as disconant or consonant in accordance with philosophical speculations regarding the relationship of tones. Larly dispositions to rely upon the ear as the foundation of judgment are found, however, with the gradual disappearance of philosophical attitudes to music and the increased reliance upon practical judgment of the nucleian. Johannes Pincsonis (c. 1535-1511), who compiled the first music distionary about 1597, defined a concord as "the mixture of two sitches, counting sweetly to our care by its natural virtue." The defines a discord as " a mixture

Johannes Tinctoris, The Art of Countercoint. Immulated and edited by Albert Seay. (American Institute of Musicology: Tusicological Studies and Documents, No. 5, 1961), p. 123.

of two pitches naturally offending the ear. " Deliance of judgment soley upon the ear of the listener in the realm of consonance and disconance presents problems of definition. The descriptions by Finctoria were further complicated by a loose employment of terminology.

Tinotoris classified discords as simple and compound, the scalltone being simple, the tone and all other discords being consormi. He Commutated some principles derived from the practice of composers of his time which foreshadows a classification of nonhades is tenso found today, in terms of approach to and departure from the Massenant tone. He states as a basic principle that a discort should be placed after the comport meanwast to it, as for example, a second after a unison, and must be followed by a comport, either aspending or descentiing, only one or two steps away. Timateria recognized that music had changed considerably during the first forty years of his life, and that there arranges provided the foundations of the treating. At the same time he seemed concerned that some sempsous of the cortet, particularly Johannes Cheghen, took liberties with the "rules" of meralssible arrangement of discords. A farring to the deviations from his principles found in the opening bars of the "Patron" of the Hissa Le belle se siet, by Ikeghem, Timeteris states, "And whatever this most excellent composer and careful adjactor of sucotness has lone. I leave to the judgment of all these who hear it."2 The final arbiter of discord here is subjective juigment.

<sup>&</sup>lt;sup>1</sup>Toid., p. 129.

<sup>&</sup>lt;sup>2</sup>Toid.

In establishing his "rules" for the arrangement of discords, Tinctoris takes into account the aesthetic concepts of his time as well as the scientific data available to him. He conveniently fails to recognize that he formulated his "rules" by breaking earlier ones, and that the same academic process night well be applied to his own conclusions at a subsequent time. The fact that Tinctoris recognized the conflict between aesthetic and scientific concepts of dissenance, heaver, is of continuing significance.

An interesting hypothesis is advanced by Mosco Carner that every period or generation had its own norm of dissonance, and considered its own norm as absolute. Back new norm is achieved by the gradual assimilation of added dissonance to the accepted patterns and ways of listening. What in one generation is regarded as harsh dissonance becomes accepted as relative concordance in the next generation of listeners. As this process continues in our contemporary culture, the ultimate ability of the human ear to adjust or acclimatize to dissonant sound combinations appears to be without limit. The requirements of tension and relaxation in tonal music are met by a relative relationship of higher and lower degrees of harshness or dispord.

A recent observation regarding the problem of discomment by Alan Walker points out the inadequacy of the laws of musical phenomena to explain discommen.

Even in the most elementary ways 'theories' which are universally held among musicians fail in the most lamentable fashion to explain some of the most typical phenomena of musical lammage. Dissonance is one such phenomenon. It is

<sup>1/</sup>Osco Carner, Twentieth Century Marmony (London: Joseph Williams, Limited, 1942), p. 3.

no exargeration to say that theorists have no proper definition of this term and therefore cannot satisfactority explain the effect. The adalenic notion of dissonance is a peculiar one, and is in conflict both with addictions and adoptics. On the one hand it appears to take no adoptic fact that our addition to towards dissonance habitearly 'meltows' with time; the field of componence is continually enlarging at the expense of dissonance. On the other hand, it takess bounds 'demonant' or 'disconant' according to how they are written. Thus a major dist' is component, but a liminished beyonth is dissonant in stitle of their agral is mitty. They because of the Lajor sixth's he itual harmonic context. This harmonic contexts change.

The nature of dissonance must be examined from both the psychological (acuthetic, and the scientific (acoustic) boint of view. At a matter of fact, we stand in real need of a theory of dissonance at the present time. Helmaeltz's 'beat' theory is generally regarded as the scientific explanation of dissonance (insofar as it attenuts to got lohind music this is proper nusical theorizing), but it confeicts with what we know to be acceletically true. According to Helmholtz, fourths are more concomant than thirds because they 'beat' less. To musician can accord this. I estever science says he ought to feet, he knows that thirds are sere satisf andly complete than fourths. It is not without interest that in early medieval times the exact reverse used to be times, thirds being more dissonant than fourths. In the meantime our reactions have changed, and there is no reason to succeed that they will not go on charging. 1

All interval and chordal continations can be arranged in sequence as to their relative strength of dissonant quality. Arranging the pure frequency ratios of the more common ambiest intervals in accordance with the growing complexity of their ratios, we arrive at the following sequence:

lan Malker, A tuly in United Individe (New York: The tree freeze of Glencoe, 1932), p. 40.

TARLE 1

#### FORMET BY TARREST OF THE WARRANT

Unitson	1:1
Cotave	2:1
Parfect Pifth	. : 2
Acrfect Fourth	4:3
"ajor Sixth	5:3
Vajor Third	5:4
Minor Third	6:5
Tinor Sixth	₹:5
Major Second	9:8
Hajor Seventh	15 <b>:</b> ೧
Minor Seventh	16:9
Miror Cecond	16:15

One sight conclude from the above table that the disserent quality of intervals increases as the frequency ratios of the interval become more complex. Mathematical theory fails to take into account the psychological asympts of musical phenomena. The human car sublitisgreater tolerance for disserance and "out-of-tuneness" than do the instruments of the modern physics laboratory. Various studies have shown, for example, that the ear does not choose the perfect fifth of pure intonation over the perfect fifth of equal temperament. The former interval has a ratio of 3:2, while the latter interval has a ratio of 439:293, an extremely dissonant interval from the accoustical point of view. This choice of the theoretically dissonant interval cannot be ascribed to cultural conditioning, even among players of keyboard instruments, but has to do with psychological considerations as yet without satisfactory explanation.

A very recent series of experiments indicates that the discriminating car of the musician does not choose either just intenation or equal temperament in producing melodic intervals when an infinite choice of pitches is available, but actually prefers interval ratios which are extremely more dissonant than those of the theoretical tunings determined by the mathematician. Using an instrument to furnish an infinite number of pitch divisions within the octave, the ear tends to select interval ratios in a melodic line which are considerably more dissonant than the intervals provided by the theoretically correct tunings of the just scale or equal temperament. These alternate tunings chosen as correct by the car have been termed "referential tunings" by Foomsliter and Greel, who conclude that "The error lies with the yardstick, not with the musicians," and that the court of last resort is the ear of the musician, and not the measuring levices of the physicist.

It is observed that all melodies contain an inherent tension and motion toward a destination, starting and enling with the feeling of relexation which is normally the established tonic. The authors present the hypothesis that "extended reference is the characteristic organization of melody; it is possibly the chief source (although certainly not the only source) of the tension and relexation that go into a melody." The investigation of "extended reference" is presented as a new approach toward the formulation of a theory of melody construction, which, to date, has not been developed satisfactorily by music theorists.

This previously unrecognized phenomen, providing new evidence

Paul C. Poomsliter and Jarren Creel, "Extended Reference: An Unrecognized Dynamic in McLody," <u>Journal of Music Theory</u>, Vol. VII, No. 1 (Spring, 1965), pp. 2-22.

<sup>2</sup>\_Ibid., p. 4.

<sup>3&</sup>lt;u>Ibid.</u>, p. 17.

that musicians are musically motivated to create tension and relaxation in music through various devices, gives further indication that non-harmonic tones may have evolved as a rational means of creating and rotating tension and relaxation through which variation.

The tension-relaxation concept of dissonance, being a concept of relative meaning, how long been considered inadequate and too reneral for theoretical purposes. In the explanation of harmonic intervals, various attempts have been made to formulate clear and exact principles to define degrees of dissonance more precisely for pedagogical purposes. Decause of the extreme difficulty of defining componance and dissonance as principles, the terms have been applied in a more or less arbitrary way to specific interval relationships found in the overtine series, and the inversions of these intervals.

A classification of consonant and dissonant intervals based upon the overtone series is given by Roger Sessions, 1 and is shown in Table 2.

Roger Jessions, Marmonic Practice (New York: Marcourt, Prace and So., 1951), pp. 15-16.

#### TAPILL 2

#### A CLASSIFICATION OF WOLA WALL AND SISSONATE EMPLICANCE

## <u>Jonsonant Intervals</u> (those intervals which are found within the triad)

1. Intervals based on the fundamental:

Perfect Octave (1st and 2nd partials)
Perfect Fifth (2nd and 3rd partials)
Major Third (4th and 5th partials)

2. Inversions of the above:

Perfect Fourth (3rd and 4th partials)
L'inor Sixth (5th and 6th partials)

3. Intervals formed by overtones other than the upper octaves of the fundamental:

Linor Third (5th and 6th partials)
Major Sixth (3rd and 5th partials)

# Dissonant Intervals (those intervals which are not found within the triad)

- 1. Seconds and Devenths (both major and minor)
- 2. Tritones
- 3. All other augmented and diminished intervals

The above classification may be summarized as follows:

#### Consonant Intervals

All major and minor thirds All major and minor sixths

#### Dissonant Intervals

All major and minor seconds
All major and minor sevenths.

All aurmented and diminished intervals

### Mistorical Considerations

Dissonance may occur in the herizontal, or melodic relation him of tones, and also in the vertical, or harmonic relationship of tones. The mathematical ratios of tones in the tempered scale provide only the octave as a pure concordant relationship, with varying degrees of discord present between the other intervals, depending upon the mathematical ratio between the tones considered. Thus a single melodic line in the tempered scale contains varying degrees of disconance in tone relationships. These dissonant relationships occur in succession and only imply harmonic relationships in reference to the implied tonality of the melody. The melodies of plainwong, created without any concept of harmonic context, provided only a very limited awareness of dissonance, or tension in monophony was expended primarily through mitch variation in the development of ornamentation and decoration of the basic melodic line in melismatic fashion.

melodic dissonance can occur only between two or more simultaneous sounds. The awareness of dissonance became a more conscious experience when monophony gave way to the relative independence of two voices in partwriting, beginning roughly about the year 900 A.D. Defore about 1600 A.D. composers wrote entirely contrabuntally, although a rulimentary kind of harmonic and tonal framework is implicit in the counterpoint of medieval composers from about the ninth century. An increasing awareness of the harmonic aspects of simultaneous musical sounds pointing toward the development of a harmonic tonal system is found in the thirteenth century. Variety developed out of counterpoint, with the

growing sense of tonality providing a new concept of tonal organization.

The cadential formulae of early counterpoint led to an awaremess of fixed relationships between chords. The cadential relationships of traditional harmony and the relationships between the normal chord progressions around a tonal center were established by the end of the sixteenth century. Individual combinations of notes as isolated phenomena had no harmonic significance until they were related in a musical context to other chords and to a tonal center. Nost of the diatonic triads, including the major and minor chords, and the chords of the sixth, were derived from the interval technique of nolymbony. The practice of using musica ficta, or "false notes," and discords latent in the older contrabuntal technique, provided the basis for chromatic chords. The practice of musica ficta included the use of B flat, F sharp, E flat, 3 sharp, and 3 sharp by about 1325. The development of the modal system into major and minor keys led to the establishment of fixed relationships of chords to a tonal center, which developed to a high degree of perfection in the seventeenth century. The diviling line between the contrabuntal process and the harmonic process is not in any way clear-cut, but for historical convenience usually is placed at about the year 1600.

The history of harmony has been divided in a general way by Allen Garrett into three major periods:

- (1) Pre-Fertian Harmony (c. 900 c. 150)
- (2) Tertian Harmony (c. 1450 c. 1900)
- (3) Post-Tertian Harmony (c. 1900 the present)

lAllen M. Marrett, An Introduction to Accearch in Music (Mask-ington, D. C.: The Satholic University of America Press, 1996), p. 89.

Pre-tertian harmony consists of chordal combinations based critarily upon the so-called perfect intervals of the unison, obtave, fifth, and fourth. Pertian harmony begins with the establishment of the triad as the principal chordal entity, which remains preeminent until the twentieth century. Post-tertian harmony encompasses the experimentation of twentieth century composers in deliberate attends to discover new combinations of sounds to replace those of tertian harmony, such as chords based upon superimposed fourths instead of thirds.

As the development of shord and key relationships evolved from the sixteenth century onward, harmonic rhythm became an important feature of musical texture, characterized by an important change of harmony on the first beat of each measure. Harmonic dissonance and its resolution gave strong implications of rhythmic pulse, the use of which parallels the development of measured music.

The new concepts of tonal relationships became very attractive to composers, resulting in the abandonment of pure contrabuntal techniques and the more rapid development of harmonic technique as the primary concept of musical texture. Bach and Handel were among the great exponents of diatonic harmony, and widened its scope considerably. The culmination of this harmonic style may be represented by the collection of 371 chorales harmonized by J. S. Bach. Bach made extensive use of chords having one or more notes foreign to the prevailing diatonic key, without losing a sense of the existing tonality. Tany of the chromatic chords which became accepted as ortholox until the end of the ninetecnth century were used by Bach both as mure

lohann debastian Pach, 271 Vierstimmire Choralgesance (Seipzig: Preitkopf & Martel, n.d.)

chromatic chords and as modulatory chords. Their origin is essentially contrapuntal and may be traced back to colab polyphonic procedure and the notes introduced by musica fieta.

### Nonharmonic Tones

The evolution of musical style during the eighteenth and nine-teenth centuries has paralleled and is identified with the increasing use of more and more dissonance. The acceptable balance between dissonance and consonance at any particular time is relative, and is determined by a constantly changing perception of what constitutes satisfactory sound combinations. This psychological condition exists in the musical experiences of cultures as well as in those of individuals.

The tension-creating relationships of tones in traditional harmonic tentures is considered the basic characteristic of factors rasic by Deryck Cooke. The expressive basis of the musical language of messern Europe consists of the intricate system of tensional relationships between notes which we call the tonal system. The concept of tension-relaxation in tonal harmony provides the basis for an explanation of the function of nonharmonic tones as devices which enhance and enlarge the expressive basis of the musical language.

The origin of nonharmonic tones, as the origin of chord structures, may be traced back to modal polyphonic procedure. Their origin is essentially contrapuntal. The improvisatory art of embelliahing a basic melodic line in early vocal and instrumental music was an expension of Massern methods of music-making. In the West this tradition

Denyok Cooke, The Language of Music (London: Oxford University Press, 1959), p. No.

was responsible for the practice of using ornaments and embellishments, with the use of increasingly precise stabols and notation to indicate in a relatively exact manner the composer's intention. The contrapuntal art of the eighteenth century achieved a fine balance in the combining of melodic ornamentation in the form of nonharmonic tones with the vertical texture of harmony.

The use of nonharmonia tones in the eighteenth century evolved from the reconciliation of two forms of texture, found in twelfth-century manuscripts and later perfected by Each, combining intuitional improvisation with musical reasoning. These textures are defined and illustrated concisely by Edmund Rubbra.

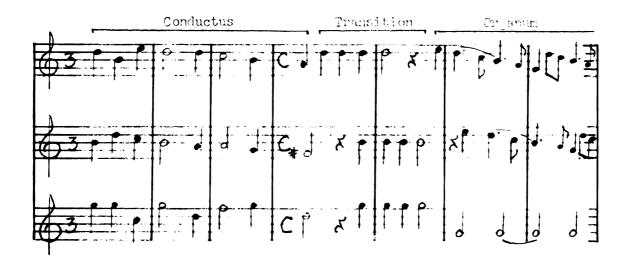
These two forms are, respectively, organia (not to be confused with earlier types of parallel devenent in fourths or fifths) and conductus. The former is a tenture of a slow-moving lower part coupled with ornate upper parts . . . , the latter a texture of two or more parts that have no rhythmic independence. The former orientation led to furne and indeed to all rhythmically independent melodic textures, and the latter to the Dach chorale and the modern hythmically to desire for clarity of words forces a non-independent rhythmic scheme. I

Sixteenth- and seventeent's-century composers used both organia and conductus as alternate textures, as a device for achieving change and variety. The alternate use of these two textures is illustrated in Weelkes's madrigal, In Black Mourn I:<sup>2</sup>

<sup>1</sup>Edmund Rubbra, Countempoint (London: Mutchinson University Library, 1960), p. 25.

<sup>&</sup>lt;sup>2</sup>foid., p. 26.

Example 1.



Honharmonic tones were derived from the two fundamental aspects of texture, namely, melodic movement and harmonic movement. Telodic considerations suggest one category of nonharmonic tones, such as passing tones, neighboring tones, and escape tones. Harmonic considerations, the movement of one chord to the next, suggest a second category, such as suspensions and anticipations. Tonharmonic tones, being an integrating feature of texture, became an essential part of the harmonic style of the eighteenth and minoteenth contaries.

Honharmonic tones, as dissonance, constitute a vital factor in creating a forward motion in partwriting, and contribute to the establishment of pulse or rhythm which impels forward the succession of chords. The mild dissonance of nonharmonic tones creates a psychological need for its resolution and tends to dispel the tendency of the honan ear to

<sup>&</sup>lt;sup>1</sup>A generic definition of nonharmonic tones is given on page 10. Further discussion of the terms nonharmonic and harmonic will be found in Chapter III.

dwell too strongly on the aesthetic effect of isolated chord sounds perceived without reference to the total texture of which each chord is a part.

Another important function of nonharmonic tones is that of variation. Variation is an important element of continuity in music. Melodic and harmonic variation avoids the stagnation of movement and the monotony created by exact repetition, and at the same time avoids the necessity of a succession of unrelated ideas. The figuration of melodic line is one of the earliest devices of the variation idea. The use of nonharmonic tones as a melodic variation device also increases the possibility of harmonic variation and gives an increase i sense of forward notion as a result of added dissonance. The combined use of these melodic and harmonic devices in the texture and rational structure of music provides a tension-relaxation factor which is the basis for the dramatic and emotional content of destern music.

Max Weber points out the importance of recognizing leviers of nonharmonic tension in the rational analysis of music. If The awareness of nonharmonic devices as rational vension-relaxation patterns helps transform the process of musical production into a calculable process using known means and principles as a basis of composition. Meber considers tones foreign to the basic cherd structures as the most important, and indeed indispensable, factor in the dynamics of chord progressions, without which no harmonic consect of music could exist. Meber's concept of the function of nonharmonic tones in tonal harmony is summarized consisely in the introduction of the recent translation by

leax meter, The Lational and Modial Foundations of Music. Francand ed. by Martindale, Middel, and Wurirth (Jarbon Lale: Monthern Allipois University Press, 1953).

Don Hartindale and Johann & Siedel.

Harmonic shord music . . . is not only make up from ton- relations which are the result of anithmetic divisions manifest in the organization of the limitonic scale, and its intervals, in triads and their respective tonality; it is also influenced by melodic devices of tone proximity. Harmonic chord music is no more sequence of triads, of harmonic dissonances and their resolutions, but an exchange between the latter and chords which do not stand for a key, a tonality, a fixed function within a tonality, tones riose melodic function has been emplained as "passing, sustained, anticipated tones," and "Appendicturas" or "Suscensions."

This principle of tone proximity provides a useful description of the function of non'armonic tones.

Tonharmonic tones are explained by Paul Hindenith as offshoots of chords derived from the basic harmonic structures. There are many such tones which do not produce independent chords, about solicities, or offshoots, they might be called. Such tones earlied chords without essentially charging them."<sup>2</sup>

John L. Dunk describes the dissonance of nonharmonic tones as an integral but secondary characteristic of tonelity. Tonality gives a primary impression of a definite key whils incorporating local dissonance which the ear tends to ignore. Dunk points out that the 'evolopment of nonharmonic tone usage in braditional harmony has been accompanied by the development of a wide variety of terminology for given nonharmonic devices. He indicates the need for clarification of nonharmonic tone terminology for pedatogloal purposes, and statests a classification in two categories, based upon function, using the terms interpolants and replacements.

l\_Tbid., O. xxviii.

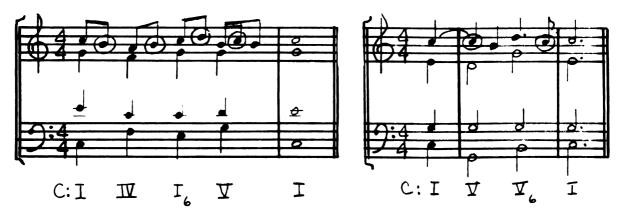
<sup>2</sup> raul M. Miniemith, The Graft of Marical Composition (New York: Associated Unic Publishers, 1205), p. 164.

The aesthetic capabilities of quasical notes and intervals are not restricted to the so-called 'essential harmonies! (the First species of the textbooks) but can blossom forth in what appears to be another dimension than pitch, in two principal ways comprehended under the peneral name of Adfu. How, or self-carrier. The first are termed IMPERPOLATED, which comprise Passing and Charging notes, Auxiliary and Grace notes, Frills, Turns, etc., as well as the lengthy pedal-points, which may be either notes, scale sections, or firm figures of melodic form--in general, anything which appears to make non-chordal relations with the harmony notes. The second are called RELLANETHES, in which a bassage of two or more notes replaces a single note, with; rise to what are named suspensions and Anticipations. These occur when a certain harmony note is replaced by another note which may or may not progress to the original, i.e., may or may not Revolve, the replaced note laving been sounded, or not, in a preseding harmony (Preparation).1

These two classifications may be cut gorized in general as encompacting the harmonic and the melodic functions of nonharmonic tenss. The following examples illustrate <u>Interpolants</u> (Example 2), and <u>deplacements</u> (Example 3).

Example 2.





Dunk's suggested terminology and classification seem to have found little acceptance in subsequent usage, as we find an immeasing variety of terminology and classifications being presented in subsequent theory

John L. Dunk, The Etructure of the Eusical Mosle (Lonion: John Lane the Bodley Hoad, 1940), pp. 156-157.

books, in those books in this large attempt at all is not be eleminated problems of terminology and elemination.

### Marmony vs. Counterseint

The academic question of whether nonharmonic toned should be treated in primarily a contrapuntal or primarily a harmonic context sometimes is posed. For purposes of logical analysis and pedagogical expediency, contrapuntal principles and harmonic principles have traditionally been structured independently according to the historical period being considered. Various viewpoints suggest the value of contents to be two pedagogical approaches into a single concept of texture.

Peter Wishart observes that the difference between harmony and counterpoint is very slight. The interpretation of nonharmonic tones is related to harmonic structure, as contrapuntal inflections have had a significant part in the development of chord structures. Tistorically, "chords arose from contrapuntal procedures and not vice-versa. The fact is that music can never be just harmony or just countercoint, or just melody, or just rhythm, and any attempt to separate all or any of these things is doomed to failure. "I

A survey of the musical materials used by competers from Purcell to Brahas, by Ivor Keys, contains the following observation regarding the concepts of narmony and counterpoint in traditional music theory during the period from roughly 1600 to 1900.

At first sight 'Purcell-Trabas' would appear to constitute a period well-nigh unmanageable in its leagth and diversity. But in dealing with the materials of harmony and

<sup>1</sup> Feter Wishart, Harmony (London: Mutchinson's University Library, 1976), p. 17.

counterpoint subdivision has been impossible. The dividing lines, for example, between 'stassical' and 'romantic' harmony disappear on inspection.

The concept of cultural conditioning as a determinant in the approach to the study of music theory is commented upon by Alan walker:

Harmonic rather than contrapuntal music newelays forms the most vital part of a musician's background. In consequence, as we have become increasingly alopt at dealing with vertical complexities so we have become increasingly impotent in our grasp of horizontal techniques. Our ability to think harmonically (fostered by music's development in this direction over the past three hundred years) has blunted our ability to think contrapuntally (a faculty that we once possessed very keenly judging by the music of pre-ionalisance times). If our harmonic bias inhibits our grasp of counterpoint just the reverse held true in the fourteenth-cixteenth contunies. Henaissance cars were not harmonically perverted to the case cottent as our own for they had no strong harmonic tradition. We know that this prevented them from taking in new harmonic techniques without considerable adjustments.<sup>2</sup>

The musical conditioning of contemporary ears to the textures of eighteenth- and nineteenth-contemp styles, to which traditional sciencesy of theory is oriented, justifies the study of nonhomeonic tones primarily in a harmonic rather than a contrapuntal context. The continuation of the principles governing both textures in a single approach for classroom presentation becomes much some complex at elementary level. of instruction. For pelagogical effectiveness, as well as for surpasses of logical analysis, numbersonic tones are more effectively considered ander the study of "harmony." Harmony itself cannot be treated supposefully apart from texture, which requires the consideration of both vertical and horizontal expects in combination. Authorizon, systems

liver Mays, The Texture of Music (Norden: Dennis Terron, 1961), p. 9.

<sup>&</sup>lt;sup>2</sup>Alan Walker, A Study in Musical Analysis (New York: The Sections of Microsop, 1962), 7. 70.

		ĺ

of an lysic use symbols, and symbols cimplify by classifying. The braditional symbols and classifications devised for harmonic analysis provide a swell-technique for the learn, thou and sustpois of non-harmonic tones. The use of nonharmonic tones is an example cant of harmonic style, and should be studied and catalogolog such.

### CHARTER III

### THERM COUNTS FRIED: TERMINEROUS AND STADSTFERRIES SE

In order to proceed from musical sound experience and the notation symbols which represent sound to an intelligent discussion and unforetailing of musical phenomena, it is necessary to avoid adding a terminology and assign precise definitions to the perminology being used. Furthermore, it is necessary to assign aleast discinctions between terms for assentic clarity. This is a basic necessity for effective classroom instruction.

The term <u>nonharmonic</u> is used here to refer to the particular devices of tension-relaxation being considered in this study. These melodic and harmonic levices are characteristic of the eighteenth-and nineteenth-contury harmonic style, as exemplified by the collection of 371 chorales harmonized by J. B. Bach. The adjective <u>harmonic</u> is used in the mathematical cause to defined by Tebster, "Having relations bearing some rescalance to those of numberal consonances." The prefix

The spelling used here, without the use of a hyphen between the prefix non and the adjective harmonic, is the form given by ebster. The hyphenated spelling, non-hermonic, is found in frequent use, however.

<sup>&</sup>lt;sup>2</sup>Dach, 371 Vierstimminge Choralgesange.

<sup>3%</sup> obstor's Third International Dictionary of the English Language. Unabridged. (Springfield, Mass.: Wirriam, 1961).

melodic tones which are dissonant to the distance trial with thich they appear and with which they are heard. Disserous alternative adjustives or variants of the term membership are found in music theory textbooks. Those found nor frequently are foreign, embelliohing, ornauntal, accessory, unescential, aloming, non-short, added, decorative, auxiliary, passing tones, and lytones. All of these terms are used a merically as descriptive terminology for the nonharmonic devices begain and presing, are a distance of these terms such as auxiliary and passing, are a distance the same time in a generic sense to all nonharmonic devices. This results in considerable subjustly and lack of accentic clarity.

In a literal sense, the term <u>nonharmonic</u>, if defined as "not part of the harmony," is inadequate to describe the dissement devices under consideration. The process of positining consenant articlesoment intervals is the very origin of chords; all times sounding together contribute to the total effect of "harmony." The connotations of terms in music become established through usage, and words have scaning as useful symbols if a common usage is generally accepted.

The term nombermonic is chosen here because it is found with greater frequency than other terms, and because the adjective non-harmonic implies more specifically than other terms in use the function and the relationship of those levices to the texture of the music.

Structure in music is the interrelation of parts as dominated by the

The word tone is used here to refer to the musical sound, and the word note to refer to the symbol representing the sound (notation). These two terms frequently are used interchangeably and without approach distinction, stemming from the general use of the word note in English and the word time (ton) in Jorman Literature.

general character of the whole. The artistic concept which guiles the composer in the creative process results in a texture. Texture in the harmonic style of the eighteenth and nineteenth centuries is the structural quality resulting from the artistic blending of relody and harmony in parteriting.

must be defined here in the musical rather than the accountical sense.

The terms consonance and dissonance in the musical sense have no absolute or fixed meanings, being a matter of relative degree. For surjects of defining nonharmonic toner, the following traditional classification of consonant and dissonant intervals, as used relative to the eighteenth-and nineteenth-century style, will be used in this study. This classification of consonances and dissonances has had general acceptance by musicians since the late fifteenth and early sixteenth centuries.

Consonances	Dissonances
Perfect Unison	Major Second
Perfect Fifth	Major Seventh
Perfect Octave	Minor Second
Major Third	Minor Seventh ;
Major Sixth	Perfect Fourths
Minor Third	Augmented Fourth
Minor Sixth	Diminished Fifth

All augmented and diminished intervals, and enharmonic equivalents of consonant intervals, are regarded as dissonances.

Dissonance which are dissonant components of a vertical chord structure (e.g., the seventh of a dominant seventh chord) are classified

Accoustically the perfect fourth is recognized, and was recognized in medieval theory, as more consonant than the third or sixth. In organum the fourth was treated as a consonance, but during the harmonic period it has been considered as a dissonance, particularly when it occurs as the lowest interval of a chord.

Roger Sessions classifies the perfect fourth as a conscnance because of its position in the overtone series (see page 21).

as rhythmic dissonance, and include such devices as tones added to a regular chord-form simply for the sake of dissonance, without regard for matters of approach and resolution. Dissonances which are foreign to the basic harmony and occur as a result of melodic movement (e.g., the melodic passing seventh) are classified as melodic dissonance. Any dissonance which can be analyzed as a chord tone and contributes to rhythmic stress may be called a rhythmic dissonance; any dissonance which is not part of a vertical chord structure and contributes to melodic movement may be called a melodic dissonance. Rhythmic dissonances resolve in the next chord and not within the same chord. Pelodic dissonances resolve either within the same chord or into the next chord.

Nonharmonic tones were shown (see Chapter II) to be an essential part of the harmonic texture of eighteenth- and ninetcenth-century music. The term nonharmonic connotes an integral and essential aspect of texture more accurately than do such terms as foreign, accessory, unessential, added, or decorative. Nonharmonic tones are not tones foreign to harmonic texture, or tones added by the composer to a basic succession of chords. They are an integral part of harmonic texture, conceived in a rational manner through the creative process. Nonharmonic tones are created in the process of achieving a balanced relationship between melodic line and vertical, or harmonic structuring of parts in partwriting. The creative process in the style of the eighteenth and nineteenth centuries involves achieving a kind of compromise between melody and harmony which results in a particular style of musical texture.

The terms 'harmonic' and 'nonharmonic' dissonance are used for rhythmic and melodic dissonance by Allis Kohs in Music Theory (New York: Oxford University Press, 1961), 701. I, p. 89.

Monharmonic tonce, as dissonances, are subject to the traditional treatment accorded dissonance since the beginning of early counterpoint. The manner in which a dissonant tone is approached and left melodically is of primary concern in the contractuatal treatment of melody. This consideration has led some theorists to affirm that nonharmonic tones should be considered strictly as contractuatal devices, with little or no regard for rhythmic considerations or the harmonic relationship of the dissonant tone to basic chord progression. Other theorists affirm that rhythm, or accent, is the primary basis for classification. Actually, both the melodic and harmonic considerations are necessary for a complete and definitive classification. These two considerations have led to two general concepts regarding the classification and organization of nonharmonic devices for instructional purposes.

The first basis for classification is found in melodic considerations. There are only three ways, interval-wise, in which any tone can be approached and departed from melodically. A tone may be approached (1) by preparation, that is, from a preceding common tone, (2) by stepwise movement, an augmented second or less, and (3) by a skip, an interval of a third or more. A tone may be departed from, in the case of a dissonant tone, resolved, in any of three ways, (1) by continuing as a common tone, the same tone appearing as part of the next chord, (2) by resolving stepwise, up or down a half-step or a whole-step, and (3) by a skip, up or down, of a third or larger interval.

The above possibilities of melodic movement provide a basis for the classification of nonharmonic tones in terms of the particular way these tones are approached and departed from melodically. The

description of each nonharmonic tone must take into account the approach to and the departure from the dissonant tone for purposes of definition and classification. Thus, each definition is concerned with the melodic behavior of at least three tones. The phoice of terminology and the definition of each device can be made in functional terms on this basis.

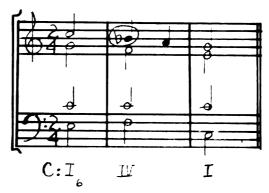
The second basis for the classification of nonharmonic tones is found in the rhythmical position of the dissonant tone in the measure. A dissonant melodic tone occurs either on an accented or on an unaccented beat or fraction of a beat. The rhythmic position of the dissonant tone introduces the vertical, or harmonic aspect of texture as a basis for classification. This basis of classification of the dissonant tone provides only two general divisions or categories, accented and unaccented, which factors in themselves do not take into account the melodic considerations that help to distinguish one device from another. An example of the limitations of the rhythmical distinction alone is seen in the fact that some theorists classify one particular device, illustrated in Example 1, as an appossint tura, 1 and other theorists classify the very same device as an accented passing tone, 2 or as a neighboring tone. 3

Walter Piston states that "appossiatura is the proper term for this device in Harmony (New York: W. W. Morton & Company, 1941), p. 192.

<sup>&</sup>lt;sup>2</sup>Allen McHose refers to this device as an accented passing tone in The Contrabuntal Harmonic Technique of the 1<sup>o</sup>th Century (New York: Appleton-Century-Crofts, 1947), p. 107.

<sup>3</sup>Paul Hindemith calls this device a neighboring tone, describing it as a suspension without preparation, in Traditional Marmony, 2d. ed. rev. (New York: Associated Music Publishers, Inc., 1944), p. 40.

Example 4.



This type of confusion results when only one basis of classification is used. In the above case, the rhythmic basis is used without adequate regard also for the melodic basis of classification and definition of terms. As harmony and counterpoint are not separable in eighteenth—and mineteenth—century textures, the classification of nonharmonic tones should take into account both melodic and rhythmic considerations. The approach—departure basis of classification lerives from the contrapuntal treatment of dissonance, while the accented—unaccented classification derives from the harmonic treatment of dissonance.

Some textbooks present a general classification of nonharmonic tones as <u>diatonic</u> and <u>chrematic</u>. This is a secondary consideration which does not provide an alequate basis for definition. A considerable number of textbooks make no attempt to classify nonharmonic tones for pedagogical presentation. Frequently the introduction of nonharmonic tones is casual and even incidental, with no organized manner of presentation apparent. The following examples of classification illustrate some of the more systematic attempts to treat nonharmonic tones in a logical manner.

<sup>1</sup>See the Select Bibliography in Appendix I.

## Examples of Melodic Classification

Joseph Schillinger uses a melodic classification, describing the technique of nonharmonic tones as the process of evolving <u>lealing</u> tones for chordal tones in a given harmonic texture. These lealing tones, moving into chordal tones, produce <u>directional units</u>, or elements of motion. "Melodic figuration can be defined as a process of transforming <u>neutral</u> units (chordal tones) into <u>directional</u> units." Schillinger classifies four types of nonharmonic tones (melodic figuration), the first three types satisfying the above definition of evolving leading tones, and the fourth type being a converse technique.

Type one: <u>suspended tones</u> (suspensions), i.e., tones belonging to the preceding chord and held over; such tones must be moved into an adjacent chordal tone.

Type two: passing tones, i.e., pitch-units inserted between two other pitch-units moving in sequence and contituting chordal tones. Passing tones may, or may not, belong to the same scale as that in which the harmonic continuity has been evolved. In the first case, they are diatonic passing tones; in the second, chromatic bassing tones.

Type three: auxiliary tones, i.e., unprepared leading tones selected with no regard to basic mitch scales. They too, can be either diatonic (in which case they have an "ecclesiastic" flavor) or chrematic (in which case they all an extreme lyrical expressiveness, due to sudden intensifications, to the music).

Type four: melodic figuration based on a technique different from the evolution of leading tones; it introduces certain chordal tones (one or more) of the following chord into the preceding chord. This device is known as anticipated tones or anticipations.<sup>2</sup>

<sup>1</sup> Joseph Schillinger, The Schillinger System of Yusical Composition (New York: Sarl Fischer, Inc., 1941), Yol. I, p. 569.

<sup>2&</sup>lt;sub>Ibid</sub>.

Allen Novoce states, "The morner in which the non-harmonic tone is derived and resolved will classify it. Presume of this, it is necessary to emphasize the importance of the classification of non-harmonic tones; for this is the basis of the concest of preparation and resolution of dissonance." MoHove classifies eight categories of non-harmonic tones: (1) Passing Tone, (2) Suspension, (3) Meighboring Pone, (4) Anticipation, (5) Escape Tone, (6) Appospriatura, (7) Polat Point, (6) Changing Tones. In describing the individual levices, he sakes a secondary classification of passing tones as unaccented and accented, and further describes them as single, double, triple, and quadruple.

H. Owen Reed gives a melodic classification of nonharmonic tones primary consideration, "according to (1) the <u>approach to</u> the nonharmonic tone, (2) the <u>departure from</u> the nonharmonic tone, and (3) the <u>direction of movement</u>. It is only possible to approach a nonharmonic tone (a) scalewise, (b) by preparation (from the same tone), or (c) by leap. The departure from the tone may be made by the same methods." The classifies and defines eight basic nonharmonic devices in terms of the above criteria; (1) Passing Pone, (2) Suspension, (3) Neighboring Tone, (4) Anticipation, (5) Escape Tone, (6) Appositatura, (7) Pedal Point, and (8) Free Tone.

Robert Ottman also defines and classifies nonharmonic tones primarily as dissonant melodic tones. "Jen-harmonic tones may be identified and classified by the relationship of the dissonance (the non-harmonic tone) to the harmonic tones which precede and follow it.

lAllen Irvine McHose, The Contrapuntal Harmonic Technique of the 18th Century (New York: Appleton-Century-Grofts, Inc., 1947), p. 99.

<sup>&</sup>lt;sup>2</sup>H. Owen Reed, <u>Basic Music</u> (New York: Mills Music, Inc., 1954), p. 55.

To identify most non-harmonic tones, it is necessary to analyze the three notes involved—a) the harmonic tone preceding the dissenses, called the note of approach, b) the dissenses itself, and c) the harmonic tone following the dissenses, called the note of resolution."

Ottman classifies eight types of nonharmonic tones: (1) Passing tone, (2) Neighboring tone, (3) Suspension, (1) Anticipation, (5) Annogiatura, (6) Escaped tone, (7) Changing tone, and (8) Tedal point. He does give recognition to the fact that nonharmonic tones sometimes are classified according to rhythmic placement.

# Examples of Rhythmic Classification

Roger Sessions refers to nonharmonic tones as "Accessory tones," describing them as "tones which do not belong to the chords used, but are introduced for the purpose of gaining a more flowing, more ornate, or more expressive melodic line or texture, or of supplying movement at points where it is required, but not furnished by the chords themselves." Sessions classifies basic types of nonharmonic tones in two general groups, the <u>unaccented</u>, and the <u>accented</u>. He gives recognition to the melodic importance of nonharmonic tones by stating, "It should be clearly understood that the terms 'unaccented' and 'accented' refer here simply to the position of the accessory tone with relation to the tones which immediately precede and follow it." His classification is as follows:

Robert W. Ottman, Elementary Harmony (Englewood Criffs, W. J.: Prentice-Hall, Inc., 1961), p. 127.

<sup>&</sup>lt;sup>2</sup>Roger Sessions, <u>Harmonic Practice</u> (New York: Harzourt, Prace and Company, 1951), p. 128.

<sup>3&</sup>lt;u>Ibid.</u>, pp. 128-129.

### Unaccented Accessory Tones

Accented Accessory Tones

Suspension

Appoggiatura Pedal Point

Passing Tone Neighboring Tone (Auxiliary) Anticipation

Additional nonharmonic devices, including "the ornamental formula known as the <u>Nota Cambiata</u>," are described by Sessions as extended and freer use of the basic accessory tones classified above.

Ellis Kohs gives an articulate presentation of nonharmonic tones, and considers rhythm and accent the most important elements in the classification of nonharmonic tones. He classifies nonharmonic dissonance as either accented or unaccented dissonance, even though the recognizes accent as not an absolute but a relative matter, varying in degree. His classification and terminology are as follows:

# Unaccented Dissonance

Passing Tone
Meighboring Tone (Auxiliary)
Echappée (Escaped Tone)
Changing Mote Group (Changing Mote; Mota Cambiata)
Double Meighboring Tone (Double Auxiliary)
Anticipation
Unprepared Meighboring Tone

### Accented Dissonance

Suspension
Appogniatura
Accented Passing Tone
Accented Meighboring Tone
Decorated Resolution of Suspension
Pedal Point (Organ Point)
Retardation

Leonard Ratner refers to nonharmonic devices as <u>melodic figura</u>tion, and uses the unaccented-accented classification. He describes

<sup>&</sup>lt;sup>1</sup>Ibii., p. 186.

<sup>&</sup>lt;sup>2</sup>Ellis B. Kohs, Ensic Theory (New York: Oxforl University Press, 1961), Vol. I, pp. 32-35; 82-36; 106-115.

the unaccented type as that which <u>does not</u> disturb the underlying harmony, consisting of tones which are heard after the shord is struck, and while it sounds. The accented type is described as melodic figuration heard at the point of chord change or at a rhythmic point which is stronger than that of the following note. Ratner obviously intends to show a clear distinction between accented and unaccented dissonance, although his definition of the point at which dissonance begins to "disturb the underlying harmony" would seen to involve a considerable degree of subjective judgment. Ratner's classification of melodic figuration (nonharmonic tones) is as follows:

### Unaccented Figuration

# Accented Figuration

Neighbor fone Passing Tone Anticipation Changing Tone Escape Tone

Accented Passing Tone Accented Neighbor Tone Appoggiatura

Rather does give detailed consideration to the manner of approach to and departure from each nonharmonic tone as an essential factor in the definition of each nonharmonic device.

# Two Classification Proposals

The many different ways of classifying, explaining, and defining nonhammonic tenes has prompted the publication of two pertinent articles in recent periodical literature which propose solutions to the problem of devising an inclusive and systematic presentation of nonhammonic tones. It is interesting to note that one article proposes a melodic basis of classification as primary, and the other article

<sup>1</sup>Leonard G. Rather, <u>Harmony</u> (New York: McGraw-Will Company, Inc., 1962), p. 66.

<sup>&</sup>lt;sup>2</sup>Ibid., p. 157

proposes a rhythmic basis of classification as primary.

Tom Turner proposes a system based upon the mannur in which a nonhamonic tone is entered and left. He suggests that the accent or rhythmic basis of classification is too complex and variable to provide a dependable basis for differentiation. He reacons that there may be some argument about a tone's accent or lack of it, but that, on the other hand, there can be no disagreement over whether a tone is entered or left by step or skip. Since there are only three ways to leave a nonharmonic tone, he suggests the following basic classification and terminology.

TABLE 3

A MEMORIC CLASSIFICATION OF NOURAGENIC FORES

ode of Entrance Name		Mode of Quitting	
Step	Passing Tone Returning Tone		
Leap	Appoggiatura		
Prolongation	Suspension (prolonged chord tone) Prolonged Passing Tone. Returning Tone, Appoggiatura	Step	
Step	Escaped Tone		
Leap	Free Tone		
Prolongation	Prolonged Escaped Tone or Free Tone Prepared Juspension left by a leap (un-named)	Leap	
Step or Leap	Anticipation	Prolongation	

Tom Turner, "A Proposal for a Stabilized Monchord Tone Momenclature," American Music Teacher, Vol. III, No. 4 (March-April, 1954), p. 6ff.

Turner comments upon the inadequacy of some of the terminology in general use, but does not suggest more suitable terms, leaving this task to his readers. His objection to accent as a primary basis of classification, which he considers too indefinite, may stem from his failure to define accent in relation to harmonic structure. The apparent simplicity of a system of classification based upon the three possible ways of leaving a nonharmonic tone becomes more complex when all the factors necessary for definition of the terms are considered. The above classification is basically adequate, but it requires further factors of differentiation to distinguish and to define precisely the various devices listed.

Hans Tischler proposes a rhythmic classification in two divisions, stressed non-chord tones and unstressed non-chord tones. 
Tischler bases his classification upon the observation that "Historically and musically stress is the primary element of differentiation among non-harmonic tones. 

He notes that stress is a complex concept, there being many means of creating stress in music, but that the application of this concept in respect to nonharmonic tones is relatively simple. 

The essential distinction to be made is whether the nonharmonic tone is entered simultaneously with the new chord, on a harmonic accent, or whether it occurs on an unaccented beat or fraction of a beat, and is related to a chord previously or subsequently heard. A strong rhythmic accent may give stress to a nonharmonic tone without a change of harmony. The other possible types of accent are unimportant in this context.

Hans Tischler, "A Systematic Presentation of Mon-Marmonic Motes," <u>Music and Letters</u>, Vol. XXCVIII, 1957, pp. 45-48.

<sup>2&</sup>lt;sub>Tbid.</sub>, p. 16

Tischler actually combines the rightmic factor (as primary) and the melodic factor (as secondary) to define the similation nonharmonic devices enumerated in his scheme. The particular merit of this proposal lies in the use of both factors for definitive purposes. His proposed classification is as follows:

TABLE 4
A RHTTELIC CLASSIFICATION OF MONHARMORIC TONES

I.	Stressed	Mon-Chord	Motes

Name & Symbol	Reached by	Left by	Other name
1. pedal point	prolongation	${ t prolon}_{\mathbb{S}}$ ation	lying voice
2. suspension (S)	prolongation	step down step up	retardation
3. appossiatura (A)	skip or step	step (down or up)	unprepared suspension

II. Unstressed Mon-Chord Notes

Name & Symbol	Reached by	Left by	Other name
4. anticipation (a) 5. passing note (p)	skip or step step skip step	prolongation  step in same direction step in same direction skip in same direction	strict p free p free p
6. turning note (t)	step skip step	step in other direction step in other direction skip in other direction	strict t free t free t escape note echappee

The above classification system takes into account the three essential aspects of nonharmonic toncs which must be considered for articulate definition, namely, the rhythmic position of the dissonance, the way in which the dissonance is approached, and the way it is left.

for pedagogical purposes, the definition of each nonharmonic device must delineate all three factors to show clear distinctions, particularly between devices which are similar in some respects. Then one or more of these factors is disregarded in defining terminology, the definition fails to show adequate distinctions and breaks down, resulting in much obfuscation.

by his using only six basic terms for nonharmonic devices, and by defining some of the terms more broadly than is desirable for a complete and definitive nomenclature. By imposing a stressed-unstressed classification over an approach-departure classification, certain complications arise in which a given melodic device is designated by two different names, depending upon whether it is accented or unaccented. Under this system, for example, the melodic passing tone levice which is approached and departed from stepwise in the same direction is called a passing tone when unaccented, and an appropriatura when accented. If stress is regarded as the primary differentiation between levices, this system is entirely logical, but confusion does arise when the same melodic device consequently is known by two different names.

The factors of stress, approach, departure, and direction of resolution all provide points of differentiation that help determine the classification and definition of nonharmonic devices. The manner of approach and of departure, however, are the only factors that consistently describe, and therefore define, all nonharmonic devices. The other conditioning factors are not clearly applicable to all nonharmonic tones, considered as melodic devices, and therefore should not be the primary basis of a system of classification and nomenclature. Because

the manner of approach and of departure are melodic factors significant to the definition of all nonharmonic devices, these factors should determine the primary classification. The other conditioning factors, where they apply, should determine the secondary classification and provide points of differentiation where such distinctions are required for a definitive nomenclature.

Examples of variants in terminology, definitions, and classification will be discussed under the respective devices which are considered in Chapter IV. The factors that determine the classification and definition of nonharmonic devices will be considered in the following order of importance:

- 1. The manner of approach and departure used.
- 2. The direction of departure from the dissonant tone.
- 3. The rhythmic position of the dissonant tone.

These factors will be used as the basis for classification and definition of the terminology selected as most appropriate for each non-harmonic device. The order in which the various nonharmonic devices are presented in Chapter IV is based upon the manner of approach and departure, beginning with a common tone, then a step, and then a skip. The direction of departure from the dissonant tone and the rhythmic position of the dissonant tone in the measure will serve as qualifying factors for a definitive nomenclature.

### CHAPTER IV

### NOMHARMONIC TOMES: TERMINOLOGY VARIANTS

A classification of nonharmonic tones according to the manner of approach and departure provides the mathematical possibility of nine basic nonharmonic devices, as shown in Table V.

DAGES CINCHARDON SEASES

`To•	Manner of Approach	'.anner of Departure
1.	Prolongation	Prolongation
2.	Prolongation	Step
3.	Prolongation	Skip
4.	Step	Prolongation
5.	Step	Step
6.	Step	Skip
7•	ა <b>ki</b> p	Prolongation
8.	Skip	Step
9.	Skip	Okip

The manner of approach and departure is used as the primary basis of classification because, firstly, nonharmonic tones are regarded as melodic devices, and secondly, because all the possible non-harmonic devices can be classified on this basis.

Further refinements in definition and terminology are possible

		i

by making distinctions according to (1) the direction of resolution of the dissonant tone in relation to the direction of its approach (same or opposite), (2) the general direction of melodic movement (up or down) and (3) the rhythmic position of the dissonant tone in the measure (atressed or unstressed). The direction of resolution may be a conditioning factor in those nonharmonic tones which resolve by step or by skip. There are six basic nonharmonic devices which resolve by step or by skip. Each of these six devices may resolve in the same direction as the approach, or may resolve in a direction opposite to the direction of approach, giving the possibility of twelve different melodic patterns.

The direction of melodic movement in eight of the basic devices may be up or down, giving sixteen elements of differentiation in melodic pattern. The first device uses prolongation for both approach and departure, involving no melodic movement, and thus cannot be classified according to direction of movement.

The theoretical possibility that the dissonant tone in each basic device may occur as stressed or unstressed provides eighteen additional factors of differentiation for purposes of description and definition. The first basic device occurs both on stressed and unstressed beats of the measure, being a sustained tone. The other eight basic nonharmonic devices may occur on either a stressed or an unstressed beat or fraction of a beat.

These mathematical possibilities of variation, totalling fortysix, may be used as distinguishing factors in the description, the
definition, and the ascribing of terminology to all possible nonharmonic
devices. These elements of variation, used to sub-classify the nine

basic nonharmonic patterns, are regarded as secondary aspects of classification because they do not apply with equal usefulness to definitive distinctions.

The forty-six possible distinguishing factors in nonharmonic tone patterns may be charted on the basis of the above criteria (see Table VI). Not all of the theoretically possible devices are found in the music of the eighteenth and minetcenth centuries, however. Jome of them lack tonal or stylistic relevance, and others represent unnecessary distinctions for definitive purposes. Twenty-four of the possible variants of single-tone nonharmonic devices are found in the music of the eighteenth and nineteenth centuries (see Table VI).

Some of the twenty-four variants are disregarded in both terminology and definition by theorists, while other of the variants are universally accepted as important distinctions for purposes of definition. A considerable number of the variants are controversial, much disagreement existing regarding their classification and terminology. Some of this controversy results from the lack of a systematic basis for classification, and particularly from the arbitrary definition of terms. Much pedagogical confusion is found in the lack of clear and precise definition of nonharmonic tone terminology.

Examples 5, 6, and 7 illustrate a few of the more obvious variations in the relative importance of melodic characteristics used for the classification and definition of nonharmonic tones. The device in which the dissonant tone is approached and left stepwise in the same direction, generally known as a passing tone, may have an upward or a downward melodic direction. No theorist apparently considers it important to distinguish between an upward and a downward melodic direction

TABES VI

# VARIANTS OF SINGLE NOWIALINGUIS DEVICES

	Rasic	Rasic Devices	Directional R	Directional Relationship of Departure to Approach	Direct Molodic	Direction of lodic Movement	Rhythmic of Dissor	Rhythmic Position of Dissonant Tone	No. of Vari- ants in use
No.	Approach	Departure	Same as Approach	Opposite to Approach	Upward	Downward	Stressed	Un- stressed	
-1	Prolongation	Prolongation	****		-	-	X	(X)	*-
2	Prolongation	Step	-		(X)	(X)	(X)	Х	2
3	Prolongation	Skip		1	Х	Х	X	×	0
7	Step	Prolongation		-	X	(X)	Х	X	2
7	Step	Step	X	(X)	X	X	(X)	(X)	හ
9	Step	Skip	X	(X)	(x)	(X)	Х	(X)	m
7	Skip	Prolongation	1		X	X	X	(X)	2
8	Skip	Step	Х	(X)	(X)	(X)	(X)	(x)	9
6	Skip	Okip	×	X	×	×	7,2	Х	0

Notes:

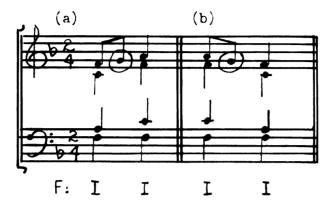
Variants Theoretically possible

--- No melodic movement occurs in the approach or in the departure, due to prolongation Variants used in nonharmonic devices of the eighteenth and nineteenth centuries

\* The first basic device is a sustained tone, occurring on both stressed and unstressed beats of the measure, hence only one form of this device occurs.

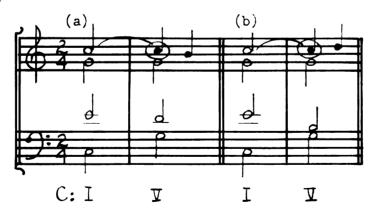
in this device.

Example 5.



The nonharmonic tone approached by prolongation and left by step, generally known as a suspension, may resolve upward or downward. Some theorists make no distinction in regard to the direction of resolution. Other theorists consider this distinction important, even to the extent of using two different terms for this device, identifying the downward resolution as a suspension and the upward resolution as a retardation.

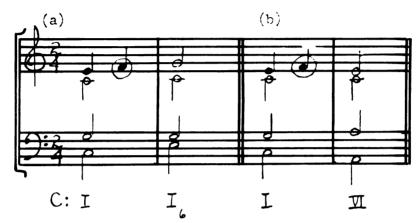
Example 6.



The nonharmonic tone which is approached stepwise and left stepwise may resolve in the same direction as that of the approach, or resolve in the opposite direction to that of the approach. All theorists consider the direction of resolution an important classifying factor in

this case. The device using the same direction for the approach and the departure is frequently given the name of passing tone. Then the direction of resolution is opposite to that of the approach, a different name is given to the device, as neighboring tone or auxiliary.

Example 7.

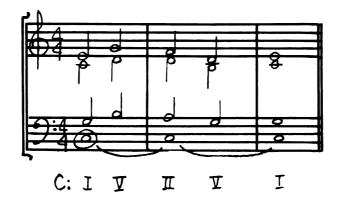


Each single nonharmonic device with its variants which are found in the music of the eighteenth and nineteenth centuries will now be considered in the order in which they appear in Table V. Certain nonharmonic devices make use of more than one dissonant tone, or combine two or more of the single devices classified above. These devices will be referred to as combined devices and will be examined in reference to the same criteria for terminology and definition applied to the single nonharmonic devices.

#### Single Nonharmonic Devices

1. Approached by Prolongation and Left by Prolongation.

Example 8.



applied to this device are organ point, pedal, pedal tone, sustaining tone, holding note, and lying voice. The term pedal tone is used to refer to the lowest tone produced on wind instruments, being the pitch produced by the entire length of the pipe. Therefore, the use of this term in connection with this nonharmonic device is not a satisfactory choice. Most of the terms used are descriptively appropriate. The term pedal derives from its use on the organ pedal, which provides a convenient means of sustaining a tone in the bass voice as long as might be required. The sustaining pedal on the modern grand piano also can serve the same function within the limitations of the piano to sustain tones. The term pedal point is the term most frequently used, and historically is the most appropriate choice as a functional term for this device.

The definition of <u>pedal point</u> is more generally agreed upon than the definition of any other nonharmonic term. A pedal point generally is defined as a tone sustained, usually in the bass, while the other voices move through a succession of chords which create a dissonant relationship with the sustained tone. The first and last of the succession of chords are harmonies to which the medal point is consonant. Some of the intervening chords, at least, are harmonies to which the pedal point is dissonant. The pedal point functions as an axis around which chord progressions are formed by the melodic movement of the other voices, and at the same time introduces the element of dissonance into the texture of the music. The pedal point may appear in one of the voices other than the bass, in which case it sometimes is called an inverted pedal point.

An example of semantic discrepancy is found in the harmony textbook by Donald Tweedy (31). He states explicitly, "Inharmonic or unessential tones are always dissonant, and are introduced either deliberately because they are dissonant, in which case they are apt to be rhythmically accented, or as melodic ornament, in which case they are regarded as a means of varying the melodic line, and may be either accented or unaccented." Subsequently, in classifying the pedal point as a nonharmonic tone, described as always dissonant by his own definition, he states a pedal point occurs "when a series of chords pivots about a given tone which remains in one voice." He then presents the following musical example, in which the medal point is not dissonant at any time, with the exception of its appearance as a chord seventh in

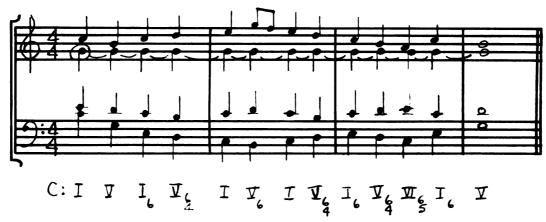
<sup>1</sup> Numbers in parentheses following the names of textbook authors mentioned in Chapter IV refer the reader to the corresponding entry in the select bibliography, found in Appendix I.

<sup>2</sup>Donald Tweedy, Manual of Harmonic Technique (Roston: Cliver Ditson Co., 1928), p. 26.

<sup>&</sup>lt;sup>3</sup>Ibid., p. 212.

the submediant chord just preceding the cadence. The tone illustrated as a pedal point is simply a common chord-tone continuing in the same voice.

Example 9.



The example is in agreement with the definition he gives of a pedal point, but both appear to be at variance with his definition of nonharmonic tones. Subsequent to this example, I weedy reiterates his original definition of nonharmonic tones, stating, "The inharmonic tone, being always dissonant, is a means of expression for intense emotion or for securing amphasis." (Italics by the author).

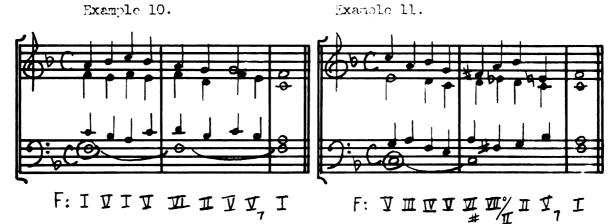
Carolyn Alchin (1) gives an exclusively nonharmonic function to the pedal point. "The <u>pedal point</u> is a tone sustained by one part through a succession of harmonies of which it forms no part." This definition is conditioned only by the requirement that the pedal point enter and close as a harmony note, and that it should be entered on the accent at the beginning of a phrase. Although the same term may

l<sub>Ibid., p. 212.</sub>

<sup>2</sup>Carolyn A. Alchin, Applied Harmony (2d ed. rev.,; Los Angeles: L. R. Jones, 1935), p. 81.

be used by many theorists, differences in the interpretation of the device may be seen to give different meanings and connotations to the term. Alchin states that when the pedal point in the base forms no part of the chord above it, the next tone above the pedal point must be regarded as the base. Weidig states just the opposite. "If the pedal tone [sic] lies in the base, the voice next above it must be treated as a middle voice, avoiding distinctive base progressions, as otherwise two bases result. This fact is of greatest importance."

The two forms of the pedal point traditionally used are the pedal point on the tonic, and the pedal point on the dominant.



Both uses of the pedal point appear to have evolved from cadential patterns to help establish or reaffirm the key. The pedal point on the tonic may be used at the beginning of a phrase, or at the very end of a phrase or a cadential point in a composition. The pedal point on the tonic sometimes is used to emphasize a plagal cadence, being used as a common tone with the subdominant and tonic chord at the point of its conclusion or resolution as a dissonance. In the same way, the dominant

<sup>1</sup> Thid.

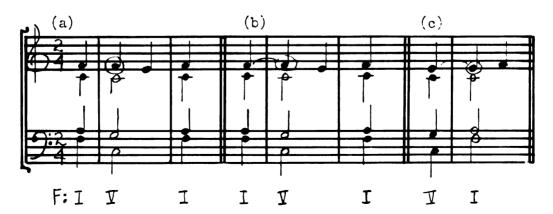
<sup>&</sup>lt;sup>2</sup>Adolf Ucldig, Harmonic Taterial and its Uses (Chicago: Clayton F. Sammay Co., 1723), p. 1,12.

pedal point sometimes is concluded with its resolution into the tende six-four chord progressing into the dominant chord as a half cadence, or continuing further to the tende chord as an authentic cadence. The chords to which the pedal point is dissonant may be either distonic or chromatic chords. Used with chromatic harmonies, the tende and iominant pedal points help keep the dissonant chords oriented to the tenality, and thus exercise a strong tenal function.

The pedal point may occur in two or three voices simultaneously, usually at the octave or fifth, in which case this device is called a double pedal point or a triple pedal point. The pedal point may be repeated without ties, or interrupted by rests, providing a rhythmic repetition of the tone. In this case it is called an interrupted pedal point. The repetition may be used to impart added rhythmic stress to the chord progressions, or to reinforce the sustaining effect on instruments with limited sustaining ability, such as the piane or the harpsichord. The pedal point is found more frequently in instrumental than in vocal music.

# 2. Approached by Prolongation and Left by Step.

Example 12.



A stressed nonharmonic tone reached by prolongation (by corner tone in the same voice) and left by step, either a half-step or a whole-step, is referred to by the terms <u>nonconsisting</u>, <u>delayed tone</u>, <u>appropriating</u>, and <u>prepared approximation</u>. These terms are found applied to this device when the tone of resolution moves up or down stepwise.

Some theorists use the term retardation for the device when the dissonant tone resolves upward (Example 12c). The dissonant tone tends strongly to resolve upward when it happens to be the leading tone of the scale, or is one of the other active scale tones which may have an expected tendency to resolve upward in its melodic context. The direction of movement of the suspended tone normally follows the directional tendency of the particular scale degree.

Pecause of this tendency disposition, resulting from tonal considerations rather than an arbitrary definition of nonharmonic tones in this study, distinction between the upward resolution (retardation) and the more frequent downward resolution is unessential in this case and does not justify the use of two classifying terms for the same device. In the interest of reducing the estegories of nonharmonic tones to the smallest number consistent with classification according to basic principles, no classification distinction need to made between an upward and a downward resolution of this device. In general, the urinciple which determines the direction of resolution is that disconant tenes tend to move to the nearest tone of resolution. If the interval of possible progression is the same in either direction, as 2-3, or 9-8 in the major scale, the more usual direction of movement is downward.

A distinction in terminology is made by some theorists when the

dissonant tone is tied to the preceding tone of preparation (Example 12b) and when it is not tiel (Txample 12a). For example, Stanley Shapple (!) and Franklin ... Hobinson (27) refer to this device as a suspension when it is tied, and a propered amountation when it is not tied. Foote and Spalling (6) and McHose (14) use the term suspension without differentiation for all accented forms of this device, and find no essential difference between the disponent tone which is tied and the one which is not tied, in accordance with the actual practice of J. C. Bach. The only difference is a matter of degree of stress; the reseated tone is heard with a stronger rhythmic bulse or accentuation than is the tone which is not repeated, but sustained by means of a tie. In the use of this device composers frequently take into account the suctaining qualities of the instrument for which they are writing, or the words of the text being used in vocal writing. A suspended or delayed tone may be tied to its preparation when writing for organ or orchestra, and repeated when writing for hiano or harosichord. The dissonant tone may be tied when the same syllable of the text occurs with both the preparation tone and the suspended tone, and reseated when a different syllable occurs with each tone.

Prout (22) states that the tie is an essential characteristic of the suspension device, and that the use of this device without the tie is properly called an appositatura. The term <u>appositatura</u> is found with a variety of applications and definitions, with much ensuing confusion. Prout states the appositatura is distinguished by its rhythmic stress and appears on the beat, most effectively obsurring with a change of harmony. By his definition, the appositatura may be entered by skip, step, or repetition, and resolves by step up or down, to a note

of the chord. The essential difference he mades between the suscencion and the appropriatura is the tie itself, without regard to the particular approach or departure used with the apportatura. If the dissenant tone is tied, he calls it a suscension, and if the dissenant tone is not tied, he classifies it as an apportatura. We stresses this distinction as having much significance, although the differences are not always clear in his definition of terms. We states that "The apportatura entering by repetition should not be confused with the suspension . . . the distinction is of great importance as the two interpretations are widely different in rhythm and style." Prout regards the differences of pectively as matters of interpretation in rhythm and style. We fails to give a clear semantic distinction showing differences in the manner of approach which would serve to define the two terms providely.

The term <u>appospriatura</u> has been used for a number of accented devices, particularly when no agreement exists as to the manner of approach, and consequently has been given multiple definitions and meanings. Confusing the meaning of the term <u>appospriatura</u> with the suspension device can serve no constructive purpose in the pelasogy of theory. The term <u>appospriatura</u> will be discussed in connection with the device more commonly known as "appospriatura".

The terms <u>lalayed</u> tone and <u>suspended</u> tone are descriptively functional relative to the harmonic and melodic context in which this device is found. Duspended tones usually clong to the preceding chard and are held over or sustained while a chance of chord occurs on the accent. These suspended tones, having become dissonant with a change

<sup>1</sup> Ebenezer Frout, Marmony: Its Theory and Practice (London: Augener & Co., 1839), p. 32.

of harmony, then move to an all cent tons of the new chord for resolution. The term suspension, its etymology being from the Labin suspendere (to hold under, forming a continuation of), originally was applied to this device in strict counterpoint, and has been the most consistently used term for this device throughout the harmonic period.

Richter (25), in a textbook used extensively in American conservatories before world War I, considers the suspension the most important manner of linking harmonies together. We defines the suspension as a device which "arises through the delaying of a progression of a voice, which is expected at a definite time, or even necessary, and in such a manner, that the voice, which has to progress one degree downwards, in order to eccupy its position in the following chort, lingers still upon the tone of the <u>first</u> chord, while the others progress to the <u>second</u>, and this voice does not pass over into the harmony until later." I Fortunately, more recent attempts to define this device are more direct, and precented with greater economy of words.

Webster gives the following definition as used in music: "The holding over of one or more tones of a chord into the followin; shord, thus producing a momentary discord, suspending the concord which the ear expects." The term may be interpreted as applying both to the holding over of the tone of preparation and to the delay in the appearance of the tone of resolution. Thus, the term <u>suspension</u> implies both the common-tone preparation and the delayed, stepwise resolution of the dissonant tone. This term will be used subsequently because of its etymological appropriateness and because of its historical acceptance in general usage.

Richter, p. 105.

Joseph Schillinger (19) gives a concide description of the historical development of suspensions, concluding that the correct use of suspensions and the supporting harmonic structure under the suspension became crystallized in the eighteenth century.

The effect of a suspension is to intensify the chord by means of common tones which, while being suspended, rise in rank as a chordal function after which rise they are then released. Every suspension consists of three consecutive phases: preparation, suspension, and resolution. Cur ears, due to heredity and habits, accept a suspension only on a strong beat. The source of this habit is strict counterpoint, in which dissonances were only permitted on weak beats and on strong beats, by suspending ("tying over") a common tone. Classical harmonic structures had not been fully prystallized at the time suspensions were used in counterpoint this way, and so these suspended tones produced antiquated harmonic structures resembling those of the old organum type.

The following figure illustrates the evolution of structure under suspensions. It has been gradually realized that it is necessary to support the eleventh by the ninth; the ninth by the seventh.

Example 13.



Schillinger states that the historical crystallization of the suspended chord seventh, S(7), as an independent structure occurs in the eighteenth century, and the suspended chord minth, S(9), in the middle of the nincteenth century. We concludes that the harmonic structures under suspensions must conform to the perfected forms for correct usage, shown in his illustrations (see Example 13). Schillinger also believes that, while suspensions in classical theory are always

descending, it is important to have a system of classification which provides for ascending resolutions of answersions.

The structural conditions given by Tchillin or for the correct use of single, touble, and trible suspensions are as follows:

A single preparation requires an S(7) in which the suspended tone is a prepared 7th. (The S(7), illustrated in Example 13, more commonly is known as the h-3 suspension).

A double suspension requires an S(9) in which the suspended tones are the prepared 7th and 9th. (The S(9) is known as the 9-8 suspension).

A triple suspension requires preparation of the 7th, 9th, and 11th in an S(11). (The S(11) also is known as the 4-3 suspension).

Schillinger makes the observation that all other structural uses of suspensions not conforming to the above patterns are crude and antiquated, and create harsh and empty-sounding gaps when orchestrated.

Further observations regarding the traditional use and definition of suspensions in the eighteenth- and nineteenth-century styles may be made as follows:

- 1. A suspension always is a stressed or accented tone.
- 2. Juspensions must be prepared and resolved. This condition precludes the use of the term "appositatura", as this term frequently is defined to include skips to the disconant tens.
- 3. Both the suspensions and its resolution must occur in the same voice. (An infrequent exception may be found when the suspended tone is recolved at a higher or lower octave as a result of a change in cherd position. This exception conforms to the principle regarding resolution; the octave and the unisch are regarded as the same tone in harmonic structure).
- 4. A suspensed tone and its resolution should not be doubled in any other voice in partwriting to prevent faulty use of parallel octaves.
- 5. A suspension neither prevents or corrects consecutive fifthe or octaves that would occur without the suspension.

Schillinger, p. 570.

- 6. The subjection frequently is given the pase duration as its preparation. It may be shorter, but not leave than the note of preparation.
- 7. The suspension may or may not be tied to its note of preparation.
- 8. A suspension usually resolves downward, but may resolve upward without any essential change in its function or its definition.

In accordance with the above observations and the hards of classification being used here, the suspension may be defined as follows: The suspension is an accented accidentable tone which is approached by preparation and resolved by step, usually designant.

#### 3. Approached by Prolongation and Left by Skip.

C: W



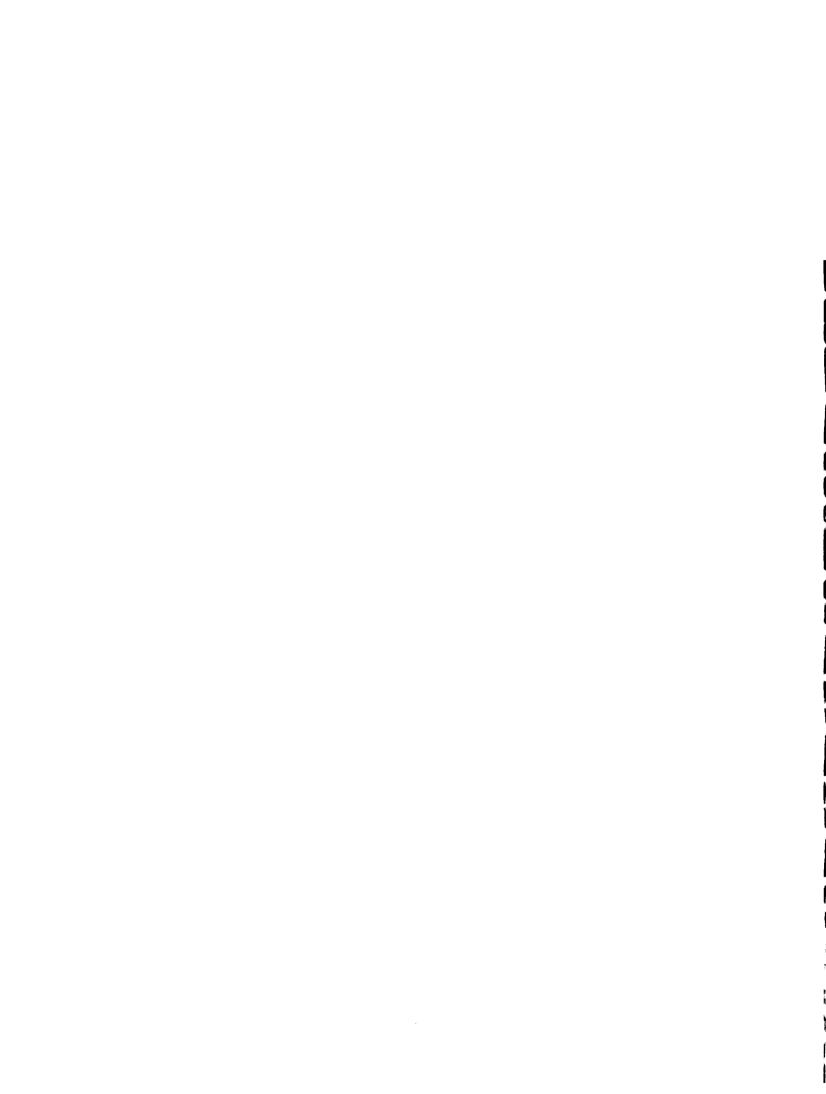
I

The device illustrated in Example 1/a may be conceived theorestically as an accounted Hissonance if an aural cones to of tonic harmony can be established in the second measure. The case wher's labour may be heard and analyzed as a submediant chord in the first inversion, in which case the tied note is a chord tone and no dissonance is present.

V

 $\nabla$ 

Inchose (1).), p. 121, woncludes from a study of frequency of propurrence in the 371 Bach Chorales that "The time value assigned to the preparation note is never less than the time value of the suspension note. Normally the time value assigned the preparation is the same as, or twice, that of the suspension note."



Recause of the tonal ambiguity of this mattern, it ranch is used. The tied note in Thample 1/hb is an actual dissonance, but the device believe is used because it deviates from the principle that dissonant tones resolve stepwise to the nearest tone of resolution.

An Apparent exception to this principle is found in the socalled indirect resolution, or resolution by substitution. A skip sometimes may be found between the dissonant tone and the apparent tone of resolution in the same voice, while the actual tone of resolution appears in another voice, usually the bass.

Example 15.

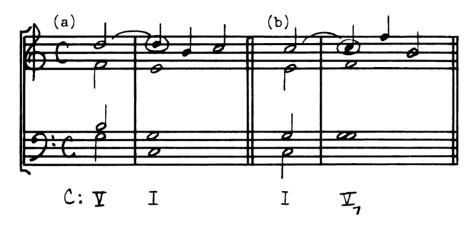


This manner of resolution is regarded as conforming to the traditional principle for the resolution of dissonance, as it represents an octave transposition of the tone of resolution to another voice of the chord. The harmonic pattern usually involves a change of chord position from closed to open, or vice versa. Theoretically and accoustically, the octave and the unison are regarded as the same tone. This pattern represents merely the octave doubling of a tone found or implied in the chord of resolution.

What may appear to be another exception to this principle is found when the melodic movement from a dissonant tone proceeds by a

skip, usually a thirl, and subsequently returns in the opposite direction to the normal tone of resolution.

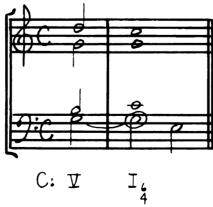
Example 16.



This nonharmonic pattern, which also contains a tone or resolution, is regarded as an embellished resolution of the dissonance, and will be treated in the classification of combined nonharmonic devices.

when the prolongation, or tied tone of the a ground occurs subsequently as a tone of the new triad on the following beat, the "suspended" tone then is a concord, and not dissonant at any point in the measure. As a harmonic tone of the new chord, it may, and frequently is found to progress by a skip to another chord tone (Example 17).

Example 17.



This type of pattern centains no dissenance to be resolved. Some theorists include this pattern in the definition of suspension,

justifying the broadened definition of the term on the assist of the tie alone. Morris (19) applies the term suspension to this levine when the prolonged tone does not form a missonance, but he describes the effect as "vacue and characterless." He does not clarify his terminology at this point, apparently because of the lack of a satisfactory basis for classifying this device in any other category. Meacox and scheann (9) note that some theorists regard this particular device as a suspension. but object to its being classed as a nonharmonic device. "The latter is, strictly speaking, not a suspension, but is classed by some as a suspension of the third, since the fifth skips down to the missing thirl of the chord. 2 Pridge and Sagger (2) relate this device to both suppensions and retardations, but explain that it close not coincide with their definition of either a suspension or a retarlation because the dissonant tone resolves disjunctly, or by skip. They apply the term driving note to this device, a term defined by stainer and Marrett as Anotes Griven through the ensuing accent.

Pridge and Jawyer illustrate driving notes with the following musical example.  $^{\!4}$ 

Example 18.



Norris, p. 78.

Headox and Lohmann, p. 173.

<sup>3</sup>Sir John Stainer and M. A. Parrett, A Dictionary of Mauical Terms. (London: Movello & Co., Ltd., 1808).

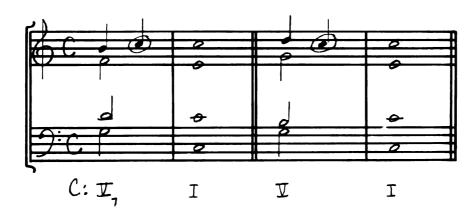
 $<sup>^{</sup>m li}$ Bridge and Sawyer, p. 1 $^{
m li}$ O.

Hull (11) also applies the term driving note to this device, defining it as a note "brought forward in time, just as suspensions are notes held back."

The use of unresolved dissonance Legenes very common in the twentieth century, but was renerally remarked as an "incorrect" procedure in earlier periods of harmonic and contrapantal practice. A non-harmonic tone approached by prelongation and left by skip is foreign to traditional harmonic practice and requires no scalarogical classification.

### 4. Approached by Step and Left by Prolongation.

Example 19.



The step-prolongation pattern of this device is seen as a reversal of the prolongation-step pattern of the suspension. A number of theorists describe this levice as being the opposite of a suspension because of the reversed relationship of the approach and the departure. Another important difference is found in the fact that this device occurs as an unaccented dissensance, preceding the tone of resolution, while the suspension is accented. There is a general acceptance of the term anticipation for this device, with few exceptions. The use of this term clearly is suggested by the rhythmic position of the dissensant

<sup>1&</sup>lt;sub>Hull</sub>, p. 32.

tone, which in fact "amble pates" its appearance in the following chord.

The obsolete term <u>driving note</u>, used by some Inclish theorists for this device during the latter part of the nineteenth century, is seldom encountered in twentieth century harmony textbooks. Until (11) applies the term <u>driving note</u> to the anticipation as well as to basic device number three.

Piston (21) uses the term <u>anticipation</u>, describing it as "a kind of advance sounding of a note." Ottman (20) provides a more explicit definition: "An anticipation is a non-harmonic tone which sounds the same pitch as the harmonic tone following and is found in a weak rhythmic position."

appears to be generally agreed upon by theorists, the term sometimes is given a broader and were inclusive interpretation than is consistent with the classification herein presented. Norman (18) attempts a further refinement of terminology for this device, in an apparent effort to clarify any confusion such as that left by full. Forman defines an anticipation as "an unaccented foreign tone which occurs directly ahead of the next boat (or afterbeat) and then reappears directly on the next beat (or afterbeat). The complicates his definition by attempting to distinguish between an anticipation which is tied to its resolution and one which is not tied. Forman refers to the dissonance which is repeated on the accented pulse of resolution as an anticipation, and

<sup>1</sup>Frederick Miceks, in his Dictionary of Musical Perms, 21 cd. (London: Augener, 1986), defines driving notes as "an eli-fachiened name for syncopated notes."

<sup>2&</sup>lt;sub>liston</sub>, n. 91

<sup>30</sup>ttman. p. 130

<sup>4</sup>Morman, p. 61

identifies the same devine then tied as synconction.

ology is made dependent upon the presence or absence of a tie, in return to both the suspension and the anticipation. Some theorists equate the tie with syncopation. Syncopation is a metrical stress on a normally weak beat of the measure, and is a matter of rhythedeal emphasis rather then melodic pattern. Stress can be created in other ways than by the use of a tie. Syncopation can be achieved by the use of a rest on the streng beat, or by the use of an ascent on the weak heat. Although the tie originally was equated with syncopation in early species counterpoint, the presence or absence of a tie is not to be regarded as a determining factor in the classification and terminology of a nonharmonic device during the clisteenth and nineteenth centuries.

Norman properts a further condication in terminology and definition when he introduces the term <u>free anticipation</u>, defined as "an unaccented foreign tone which occurs directly ahead of the next beat (or afterbeat) and then instead of reappearing directly proceeds to a different note of its proper chori on the next beat (or afterbeat)."

Two different basic devices in the approach-departure system of classification are thereby confounded, by applying the term <u>anticipation</u> to a device which resolves by a skip as well as to a levice which resolves by prolonation.<sup>2</sup>

Some theorists apply the term anticipation to devices which

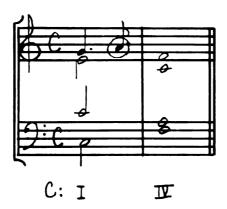
l<sub>Ibid</sub>.

An interesting footnote appears on the last page (n. 122) of Ur. Morman's harmony textbook: "Jonumi at protection is neither elsive nor desired on the terminology, symbolism, and lefthitions employed in this book. The author considers all of the terminology and symbolism and each of the definitions to be considerly in the public domain."

are either approached by which or departed from by skip. Jordan was the term free anticipation for an unaccented nonhardenic term which is left by a skip to a different tone of the following short. The definition of the anticipation given by Purphy (17) includes the possibility of a skip to the dissonant tone. Poots and Spalding (6) include the possibility of a skip from the dissonant tone in their definition of enticipation, as an alternace form of the device.

Chadwick (5) states that the anticipation may be left by a skip to another tone of the same chord, calling this levice an <u>irregular</u> anticipation.

Example 20.



Chadwick states further that "an entire shord may appear in advance of the leat to which it naturally belongs, forming anticipations in all voices." Luch a chord pattern may be considered harmonic or nonharmonic, desending upon the harmonic analysis used.

Emery (5) differs with Chadwick, observing that the anticipation may occur as double or triple, involving two or three voices, but at least one voice must retain a note of the previous chor. "When all voices proceed thus early to the following chord, they present a

<sup>&</sup>lt;sup>1</sup>Chadwick, p. 190.

rhythmic, but not a harmonic, anticipation and coale to be known under this name." If the original absumption of this study is valid, that all nonharmonic tones are dissonant, the term anticipation may not properly be applied to the chord in which all voices "anticipate" the following chord and no dissonance actually is present in the harmonic structure.

We have thus a variety of definitions for the term anticipation, which presents a considerable problem in attempting to classify this device on the basis of approach and departure. The various definitions given above include the following possibilities, which would apparently require inclusion in a comprehensive definition of the term.

Approach	Departure		
step	prolongation		
step	step		
step	skip		
skip	prolongation		
skip	step		
skip	skip		

An attempt to include all of these variants of a levice under a single term combines several categories of devices based upon an approach—departure system of classification. To avoid such a broad use of the term anticipation, with its inherent difficulties of definition, a definition such as that given by Ottman is regarded as the most logical and most practical for instructional our losses. The system of classification being proposed here requires that only one term be used for each device, and that only one specific device be associated with each term in the vocabulary of nonharmenic tones.

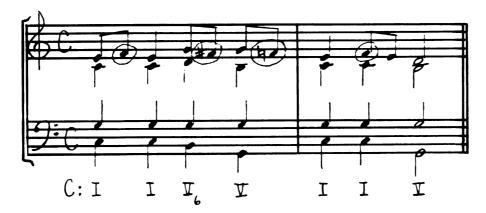
<sup>1</sup>mery, p. 96.

## 5. Approached by Step and Left by Step.

Example 21.



Example 22.



pattern of nonharmonic devices. The melodic novement may be in half steps or in whole steps, according to the particular scale degrees involved or the harmonic style being used, permitting either diatonic or chromatic movement. The usual diatonic character of this device permits a scalewise movement in all voices of the chord progressions, providing the melodic emphasis characteristic of contrapuntal harmony. The dissonant tone is found on both stressed and unstressed parts of the measure, but more frequently on the latter.

Evo distinct forms of this basic nattern are found. The more common form is that in which the dissonant tone is received in the same

direction as that of the approach (Example 21). The other form exect a tone of resolution which is reached by a reversal of the melodic lirection, with a return to the same note.

The one difference between the two foras of this device, the melodic direction of the departure, traditionally is of sufficient importance to classify them separately. The apparent simplicity of the two patterns belies the wide variety of terminology and definitions used to emploin these patterns in the pedagogy of theory.

The first form of this levice (Thanple 21) is known as a passing tone (assented or unaccented), amiliary tone (assented or unaccented), and properly ensymbled (assented). The second form of this device (Thanple 22) is known as a neighboring tone (upper or lower), amiliary tone (upper or lower), amiliary tone (upper or lower), passing tone, embellishing tone, alternating tone, appropriature (secented), changing tone, and slow mordent. The fact that the same terms are applied to both forms of this device in some instances currents that a close relationship exists between the two devices. The terminology as used by some textbook writers would seem to imply no distinction whatsoever.

of this device of fundamental significance, requiring two distinct terms and definitions. The passing note differs ratically from the auxiliary note. The auxiliary note departs from and returns to the same note. The passing note connects two different notes. The passing note connects two different notes.

A much greater source of confusion than the variety of terms

Irorte, p. 10.

found in use is the variety of definitions given for each term. If a student's understanding of terminology is limited to the presentation of a single textbook or a single instructor, the concepts underlying the terminology appear to present no simificant problems. When textbooks or instructional presentations are compared, however, the actual meaning of the terms used becomes much less obvious. The great variety of definitions given for apparently pinale terminology leads one to the conclusion that the precise definition of each term is such more signifigent for understanding than the particular choice of terminology itself. Furthermore, for consistency of meaning the Telinitions given the terminology should be related directly to the system of classifigation employed. Much of the obfuscation in nonharmonic tone terminology can be ascribed to the absence of a logical basis of classification, or to inconsistencies in classification. In some cases, terms appear to have been chosen arbitrarily with no basis of classification as a guide to definition of the terms. More recently published textbooks evidence greater concern for a systematic classification of nonharmonic tones, resulting in a nore logical use of terminology.

On the basis of frequency of asage in more recent tenthooks, the term passing tone is suggested as the appropriate term for the lavice illustrated in Example 21. For the same reason, the term neighboring tone is suggested for the device illustrated in Example 22. These two terms will be used subsequently in referring to the two forms of basic device number five in this study.

In order that the concepts embodied in these two terms have meaning for communication, the terms must be defined clearly and in a manner consistent with the approach-departure system of classification.

An examination of some of the meaning associated with the terms passing tone (Example 21) and neighboring tone (Example 22) indicate the extent of the problem, and suggest clearly the necessity for definition in relation to classification.

Richter (25) refers to passing tones as "harmonic by-tones", defining them as tones which "arise through the filling out, by means of tones lying between, of greater or smaller harmonic voice-stems."

Alshin (1), also referring to nonlearn mis tones of by-tones, states that such tones which "move by step to another harmony instead of returning to the first tone are called passing tones."

Intl (11) gives a such broader definition of passing tones as unotes which do not form any part of the chords. If nonharabnic tones are lefined as dissonant tones, this definition can be applied to all nonharabnic devices.

Norris (16) uses the term <u>passing note</u> to include both forms of this device, that is, both the passing tone and the neighboring tone. He describes passing tenes as belonging to the category of "subsidiary notes, unessential notes foreign to the harmony," and more specifically, "A passing note may either pass forward to a new note or back to the note it started from "I Norris gives the following illustration for his definition of the passing tone (Than de 21).

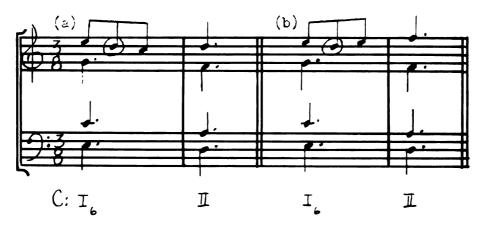
Highter, p. 128.

<sup>&</sup>lt;sup>2</sup>Alchin, p. 65.

<sup>3&</sup>lt;sub>Hull</sub>, p. 32.

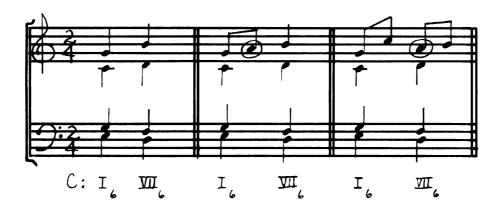
<sup>4</sup>Norris, p. 30.

Example 23.



Mitchell (15) classifies passing tones as either consonant or dissonant, presenting another concept of this device which includes the chordal skip and allows for both accented and unaccented forms of this "detail of melodic figuration." Litchell gives the following illustration of the passing tone.<sup>2</sup>

Example 24.



Eurphy (17) suggests that all passing to assure properly regarded as only those tones which occur as unaccented forms of this device, but he is not entirely clear in regard to his own classification of the accented form of the passing tone. We explains that "For historical reasons, some theorists classify accented passing tones

litchell, p. 124.

<sup>&</sup>lt;sup>2</sup>Ibid., p. 126.

as appontaturas."1

Hinde with (ii) contributes a considerable amount of confusion to the terminology and classification of nonformation to a. The left-nition of the passing tone device coincides with the approach-legariture classification being used for this study. For the nelfth order, tone device, however, he uses the term chancing tone, defining this levice as a non-chord tone which occurs "between a chord tone and its receptition, in weaker metric position than either, at the distance of a second above or below." He gives the following illustration of changing tones.

Example 25.



Windowith's terminology here differs from that of a majority of theorists and may be confused with a device to be discussed later. He does use the term neighboring tone, but in a manner which leads to still more confusion. He presents three estagorist of neighboring tones and illustrates his definitions, as follows. 3

The Meighboring Tone is a sussensien without preparation: (Example 26).



<sup>1</sup> thurphy, p. 170.

<sup>&</sup>lt;sup>2</sup>Hindenith, p. 39.

<sup>3&</sup>lt;sub>Ibid., p. 40.</sub>

The neighboring lone best by obly follows its chord tone at the interval of a second, propositive to another chord tone by skip. It obesit in meaker metric position than the chord tones:

(Example 27)



The Meighboring Tone Approached by Skip precedes its chord tone at the interval of a second, being separated from the previous chord tone by a skip:

(Example 28).



The definition of the term <u>neighboring tone</u> given by Hinterith presents an extremely broad interpretation not shared by most other theorists. The inclusion of nonharmonic tones approached by skip and left by skip involves three different categories of basic new armonic devices in the approach-departure classification. This apparent attempt to simplify the categories of nonharmonic levices adds more confusion than clarity, particularly with the unusual inter-change of terminology applied to the devices illustrated.

Enery (5) also uses the term <u>changing-note</u> in reference to the neighboring tone device. He defines the changing note as being "the came as the passing tone, except that it returns to the same note from which it came." Emery gives the term <u>passing tone</u> a much broader

<sup>1&</sup>lt;sub>Emery, p. 96</sub>.

definition than does Hinlerdith, using it to include a levice which skips to the dissonant tone. "A skip-note is a variety of passing-note to which, but not from which, a voice may skip."

Chadwick (3) uses the term <u>exhallishment</u> for the neighboring tone device. "The passing tone, which, instead of proceeding to the next harmonic tone above or below, returns to the same one, is called the embellishment."<sup>2</sup>

Any attempt to correlate the above interpretations of this nonharmonic device and the terms applied to it into precise definitions for pedagogical purposes results in chaos. Dither one must select arbitrarily a name and definition for each device, or determine a suitable terminology and definition on the basis of some logical system of nonharmonic tone classification.

harmonic tones have simplified the explanation of passing tones and neighboring tones, and provide a basis for the general acceptance of terms and definitions. A lucid explanation of these two devices based upon an approach-departure analysis is given by Terope (14), Reed (24), and Ottman (20). Mellose gives a very detailed explanation of the passing tone based upon the approach-departure classification. We defines the passing tone as a nonharmonic tone which is distripolated between two harmonic tensa of different witch. The passing tone has glaced in two categories, the unaccented and the accented, with a melodic direction either ascending or descending. Taking the masser of

l<sub>Tbid</sub>.

<sup>&</sup>lt;sup>2</sup>Chalwick, p. 195.

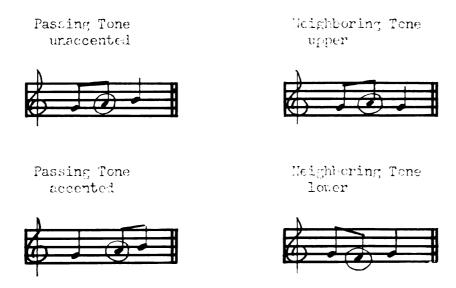
<sup>3</sup>mcMose, p. 105.

approach and of departure as the primary basis of classification, a single term and definition may be applied to both unaccented and accented forms of this device.

The neighboring tone, second in order of nonharmonic frequency to the passing tone, is explained by Mclose as a nonharmonic tone approached by step and left by step in the opposite direction. The same basis for classification is used as for the passing tone, which includes the lower neighboring tone and the upper neighboring tone. The approach and departure are steprice melodic movements in every case, with no exceptions. The neighboring tone may be accented or unaccented.

Reed (24) and Ottman (20) give a similar explanation of this device in very concise form, summarized with the following illustrations:

Example 29.



The approach and departure in every case are stepwise, conforming to the basis of classification presented for this device. The distinction

<sup>1</sup> Ibid., p. 131.

between the passing tone and the neighboring tone thus is a matter of direction of resolution.

Piston defines passing tones as "tones which fill the space between two different harmonic tones not necessarily members of the same chord. This interval will be either a third, a fourth, or a second and may be bridged diatonically or chromatically, or by a contination of both, as long as the melodic progression contains no skip."

Piston disagrees with Telose and others in regard to the classification of the accented form of this device. "Although the passing tone may occur on the best, or simultaneously with a change of harmony, it is inaccurate to speak of an 'assented passing tone'. All passing tones are unaccented unless they are purposely given an artificial assent. The so-called 'accented passing tone' is more correctly classified as an apposgnistura."

In accordance with the approach-departure principle of classification, a device approached by step and left by step in the same direction is the same device whether it occurs in an unstressed or a stressed position in the measure. Consistency of classification thus allows the passing tone to be regarded as accented or unaccented. The same reasoning applies to the device approached by step and left by step in the opposite direction. The neighboring tone consequently may be regarded also as an accented or unaccented form of this basic device.

The author suggests that the confusion found in the various textbooks examined may be eliminated by the use of a logical system of classification and a consistent definition of the terms applied to

Walter Piston, Principles of Marmonic Analysis (Boston: D. J. Schirmer Music So., 1933), p. 30

<sup>&</sup>lt;sup>2</sup>Tbid.

		1
		1

nonharmonic devices. The problem of terminology may be greatly simplified for pedagogical presentation by making the definitions consistent and concise.

## 6. Approached by Step and Left by Skip.





This nonharmonic pattern derives from a type of ornamentation in early polyphony which evolved as an exception to the principle that dissonances must resolve stepwise to the tone of resolution. The dissonant tone usually may be regarded as a tone of the following chord, heard prematurely on an unstressed part of the preceeding beat. It functions rhythmically as an anticipation of the next chord, but one which resolves in another voice by substitution. The resolution of the momentary dissonance often results from a skip of a third in a direction opposite to that of the approach. Melodically, the dissonant tone functions rhythmically as an anticipation of the next chord, but one which resolves in another voice by substitution. The resolution of the momentary dissonance often results from a skip of a third in a direction opposite to that of the approach. Melodically, the dissonant tone functions as an embellishment of the two tones which form the approach and departure.

Harmonic analysis of the first chord gives the nonharmonic tone the appearance of an unresolved dissonance. However, the unstressed position of the dissonance in the measure and the immediate appearance of the tone of resolution in the following harmony give the aural effect of a direct resolution. Some theorists regard this pattern as a form of anticipation, depending upon their interpretation and definition of the device.

This device is known most frequently as an escape tone, or using the French term, an <u>Schappse</u>. Prout (22) calls this device a <u>changing tone</u>. Forte (7) applies the term <u>submetrical auxiliary tone</u> to this same device. This device is classified as a <u>free auxiliary</u> by Fimsky-Korsakov (26), and as a <u>free anticipation</u> by Cutter.

Cutter considers the free anticipation and the free tone to be closely related, the distinction being in the harmonic relationship between the dissonant tone and the chord of resolution. The defines the term <u>free anticipation</u> as "a free tone quitted by a skip, which belongs to the following chord." Cutter defines a <u>free tone</u> as a nonharmonic tone
"Quitted by a skip, up or down, and not a member of the following chord."

The term <u>escape</u> tone is suggested for this device on the basis

<sup>1</sup> Prout, p. 114.

<sup>&</sup>lt;sup>2</sup>Forte, p. 330.

<sup>3</sup> Trimsky-Horsakov, p. 95.

UPenjamin Cutter, <u>Harmonic Analysis</u> (Boston: Oliver Ditson Co., 1902), p. 24.

<sup>&</sup>lt;sup>5</sup><u>Ibii</u>i, p. 31.

<sup>6&</sup>lt;sub>Ibid</sub>.

of its general acceptance in current usage and the historical consistency of its application to this levice. The escape tone pattern is approached upward by step and resolves downward by skip, often a skip of a third, being an embellishment of a descending scale step in the melodic line. The escape tone appears on an unstressed beat or fraction of a beat, is heard after the chord is sounded, and resolves in the same chord or in the next chord. The inversion of the escape tone seldom is found in eighteenth and nineteenth pentury harmony. Mohs (13) notes a rare exception to the downward resolution of this levice in the secalled "Landini Cadence," in which the sixth scale degree is inserted between the seventh (leading tone) and the octave. This pattern is named after Francesco Landini (1325-1397), and is found in the works of many fourteenth and fifteenth-century componers (see Example 31).

Example 31.



Morris (19) illustrates the same Landini Cadence pattern and states the dissonant tone may be analyzed either as a passing note or as an appoggiatura. We suggests that the proper term for this inversion of the escape tone is passing note, which is in direct contradiction with his own definition of the passing tone, a tone "foreign to the harmony, passing diatonically or chromatically between other notes helonging to the harmony." The terminology and the analysis given by

<sup>1</sup>Kohs, p. 83.

<sup>&</sup>lt;sup>2</sup>Horris, p. 107.

<sup>&</sup>lt;sup>3</sup>Ibid., p. 105.

Morris for the inverted escape tone is highly irregular as well as inconsistent.

Piston defines the <u>échappée</u> specifically, and in accordance with the approach-departure classification. He then provides for the inclusion of variations in the use of this device. "The echappee leaves a note by step and then proceeds by a skip of a third in the opposite direction. The first note may be a harmony note or a non-harmonic tone, such as a suspension or an appoggiatura. The note following is usually a harmony note, but may be an appoggiatura or a cambiata. Larger skips than a third may be found, often the result of the interpolation of an appoggiatura."

The escape tone sometimes is used as part of a pattern involving more than one dissonant tone, and as such becomes one of the combined nonharmonic devices to be discussed subsequently. The term escape tone is reserved for the single nonharmonic pattern containing only one dissonant tone. The escape tone is defined in the approached departure classification as a nonharmonic tone approached by step and resolved by a skip, usually a third, in the opposite direction.

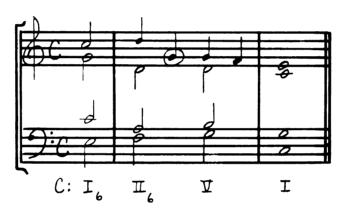
## 7. Approached by Skip and Left by Prolongation.



Walter Piston, Principles of Marmonic Analysis (Boston: D. D. Schirmer Music Co., 1933), p. 34.

This nonharmonic tone pattern occurs infrequently, and is not given a distinguishing name as an independent device by most theorists. The resolution by prolongation relates this device closely to the anticipation when the dissonant tone occurs on an unaccented part of the measure or beat. It may with some justification be considered an irregular form of the anticipation (see device number four, page 71). Dessions (30) illustrates this device and designates it an anticipation (see Example 33).

Example 33.



Emery (5) names a nonharmonic tone approached by skip a skip-note, which he defines as "a variety of passing note to which, but not from which, a voice may skip. It differs from the appoggiatura in comming after the chord, or accent, while the appoggiatura comes on the chord or accent." Although this definition seems to be specific, no distinction is made between a dissonant tone resolved by prolongation and one resolved by step. The definition is incomplete in this respect, leaving further opportunity for misinterpretation.

Hindemith (10) also regards this device as a form of anticipation, using the weak metric position of the dissonant tone and its

<sup>1&</sup>lt;sub>Sessions</sub>, p. 132.

<sup>&</sup>lt;sup>2</sup>Emery, p. 96.

ļ
! !

resolution by prolongation as the basis of his classification. The difference in the manner of approach is regarded as a secondary factor by Mindemith. The common characteristics of the two patterns are used to justify placing both devices in the same category.

The terms passing tone and appongiatura, when applied to this device, are defined in so many different ways as to defy classification. A broad interpretation of these two terms is used by some theorists to encompass infrequently used nonharmonic devices such as those illustraded in Examples 32 and 33, but this practice precludes a precise definition of terminology. With a similar degree of inexactness, the terms unprepared dissonance and unprepared suspension sometimes are used for the accented form of this device, the resolution of the dissonant tone by prolongation being regarded as irregular.

devices by placing them in two general "families" or categories, (1) the "family of appogniatures and changing notes", and (2) the "family of suspensions." This device appears to be included in his second category, but without a specific name given to the device. To solve the problem of nomenclature and definition of nonharmonic tones, Mishart dismisses the matter with his statement that "The ear is the sole juige, and hit or miss methods are by far the best way of learning to master them."

Two limitations in the musical usefulness of this device in

l<sub>Hindemith</sub>. p. 40.

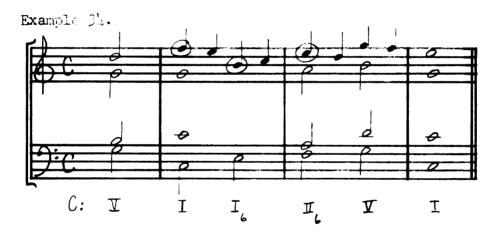
Peter Wishart, Marmony; a Study of the Practice of the Great Masters (London: Mutchinson's University Library, 1996), p. 113.

<sup>3</sup>Ibid.

eighteenth—and nineteenth—century styles result from both the approach by skip and the departure by prolongation. A dissonant tone which is approached by skip is a stronger and less conventional use of dissonance in this period than one which is approached by step or by prolongation. When a dissonant tone is reached by skip, traditional usage indicates that a resolution by step is more acceptable to the ear.

The close relationship of this device to the anticipation and its infrequent occurrence in traditional harmonic styles do not justify its having a special term. It will be regarded here as an irregular and little used form of the anticipation.

# 8. Approached by Skip and Left by Step.



A greater variety of terms is applied to this device than to any other of the basic nonharmonic devices. The following terms are among the more frequently encountered names for this device, both when the dissonant tone is accented and when it is unaccented.

- 1. appoggiatura
- 2. unprepared suspension
- 3. indirect suspension
- 4. free suspension

- 5. changing tone
- 6. cambiata
  - 7. neighboring tone
  - 8. passing tone

The direction of anymouch to the dissonance, either up or down, is not regarded as an important differentiating factor in any of the textbooks examined. The direction of resolution always is in the opposite direction to that of the approach. The dissonant tone occurs both in an unstressed and a stressed metrical position in the measure. Jome theorists apply the same term to both the ascented and the unaccented forms of this device. Other theorists prefer the terms appointators or suspension for the accented form, and the terms changing tone, cambiata, neighboring tone, and passing tone for the unaccented form.

The variety of definitions given the above terms compounds the difficulty of establishing a consensus regarding terminology. The conflicting use of terms is most evident where no systematic attempt is made to classify nonharmonic tones in some logical manner, or where the definitions are so broad as to include divergent nonharmonic devices.

The meaning of any term must be established by definition, and the definition must have relevance to the classification. Since all of the above terms have been applied to devices other than this particular one, an organized system of classification is essential to avoid an equivocal use of terminology. The ambiguous use of terms appears to be the greatest source of confusion in the explanation of this particular device, even though the device may be identified easily as a specific nonlarmenic pattern.

Richter (25) uses the term changing note for this device, but gives the term a broad interpretation which includes neighboring tones, making no distinction between an approach by step or by skip.

Changing notes . . . are those tones foreign to the harmony, which either appear in the character of a smc ension or appogniatura at the time of entrance of the harmony (thus

in a sense upon the assented part of the normal, and establishmenselves to the formends notes, or, after the manner of the passing notes upon the unaccented part, serve for the reloads adorment of two like notes.

The changing note can therefore appear in chips, it must however be joined closely to the harmonic note. 1

Richter analyses the nonharmonic tones in the following example as changing notes.

Example 35.



Alchin (1) calls this levice on approxistma, defining it precisely as a "bytone taken by leap and resolved by step." Cureby (17) uses the same term and definition, describing the device as a nonharmonic tone "entered by skip and resolved atomics." If the device is very brief, he notes, the same device then is called an acciaccatura.

Tweedy (31) uses the term appropriatura for this device, defining it as "an unprepared neighboring tone." He thus qualifies his previous definition of a neighboring tone by now permitting a neighboring tone to be reached by a skip. The distinction between a neighboring tone and an appropriatura becomes obscure with this interpretation.

<sup>&</sup>lt;sup>1</sup>hichter, p. 129.

<sup>&</sup>lt;sup>2</sup>Alchin, p. 73.

<sup>3</sup> Murphy, p. 170.

<sup>4</sup>Tweedy, p. 170.

<b>5-</b>		
		ļ !
		\ 1

noetschius states directly that "the Armonistan is an unprepared neighboring-note." He then interpolates a notation to explain his use of the term neighboring-note for more than one levice.

The distinction is purely theoretical and has no practical value. As stated previously, every inharmonic tone is a Meighber, no matter what specific name it may assume. The student is therefore advised to adopt the generic term "Meighboring-note" for the Apposphatura—and also for the unprepared Suspension.

Piston gives a more inclusive definition of the term appospiatura, which includes the approach by skip, by step, or by repetition.

The appogniatura (Italian appogniare, to lean) is distinguished by its rhythmic stress, or melodic weight. It appears on the beat, most offectively with a change of hermony. It may enter by ship, step, or resetition, and resolves by step up or down, to a note of the chand. The appogniatura entering by repetition should not be confused with the suspension. The distinction is of great importance as the two interpretations are wilely different in rhythm and style.

Hull states simply that an apporriatura is "an accented passing-note." He defines passing tones in an equally broad fashion as notes "which do not form any part of the chord," thus avoiding a precise definition of terminology.

Foote and Spalding (6) use the term appropriatura to include both a step and a skip to the dissonant tone, defining the term as "a tone foreign to the chord with which it occurs, and entered by step or by leap."

loetschius, p. 158.

<sup>2&</sup>lt;sub>Ibid</sub>.

<sup>3</sup> Malter Picton, Principles of Marmonie Analysis (Poston: E. C. Cohirmer Music Co., 1933), p. 32.

<sup>4</sup>null, p. S2.

<sup>5</sup>tbid.

<sup>6</sup> Foote and Spalling, p. 219.

in very nebulous sefinitions. To atotax that tapear istures are similar to passing notes in as much as they can be listenic or chromatic."

He adds in a subsequent explanation that an orginaturas function in two ways.

- 1. Without preparation by the previous nose in the same voice.
- 2. With preparation by the previous note in the same voice.

In the second case the prepared appropriatura can be tied thus creating a suspension. It is a debatable point whether the word "suspension" came from the appropriatura having been prepared, or tied. The author feels that the first hypothesis is correct, and that the tring of the note does not affect the musical sense, as the nature of the instrument will determine more often than not whether the tie is used or omitted.2

chapple concludes from his analysis that "therefore any orenarci approprietura is a suspension." To compound the confusion in his use of terminology, Chapple concludes that "a passing note can become a suspension by allowin; it to continue as an appropriatura. The examples cited by Chapple provide no clarification of his terrinclogy and definitions, but indicate a general overlapping of the three terms he applies to this device. The absence of any systematic classification is reflected in the disorganized use of terms and in the formulation of definitions.

Frequently the meaning of inalequately defined terms may be deduced from given examples if the examples show consistency of use.

lohanole, p. 33.

<sup>&</sup>lt;sup>2</sup>Ibil., p. 69.

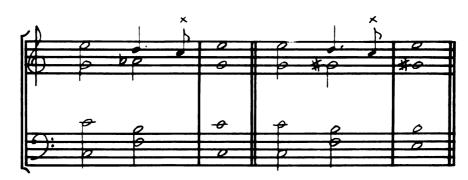
<sup>3&</sup>lt;sub>Ibid., p. 70</sub>

li Ibid.

	İ

When the examples thems was contradict the given definitions in text-books, the instructional process is creatly himbored. An example from Practical Harmony, Part II, by Horris (19) illustrates this particular kind of confusion. Horris defines a passing tone as a tone "foreign to the harmony, passing diatonically or chromatically between other notes belonging to the harmony." In the same chapter, Morris gives the following musical examples, identifying the tones marked "x" as "passing notes."<sup>2</sup>

Example 36.



In a footnote to these examples, Norris states, "X may be analyzed either as passing notes, or as apposgiaturas." Deither the example nor the analysis correlates with the definitions he gives for the terms passing tone and apposgiatura. The apposgiatura, like the suspension, is a note which momentarily occupies the place of the note to which it eventually moves. It is usually a note foreign to the harmony, and ordinarily comes on an accounted part of the measure, resolving either up or down."

llorris, p. 105.

<sup>&</sup>lt;sup>2</sup>Ibid., Ex. 1/1, p. 107.

<sup>3&</sup>lt;sub>Tbid., p. 107</sub>.

<sup>4</sup>Ibid., p. 99.

In spite of attempts to appear specific regarding membersonic devices, many of the older testhooks imply an underlying judgment, ore-claimed recently by sighert, that memeral, hit or miss methods are the best approach to learning nonharmonic devices (see page 33). Secont theory books exhibit a greater concern for methodology and a systematic structuring of content for classroom instruction, with a slight trend toward a more uniform use of terminology.

The logic of any system of classification requires that cash device in general use be given a specific name, and that the same term should not be used for two or more different devices in the classification. The term appropriatura is suggested as the most suitable term for a dissonant tone approached by skip and left by step. Recent usage indicates this term is more widely accepted for this device than any other term.

The variety of infinitions used for the term appropriatura attents to the need for a specific definition for each term if non-harmonic tone terminology is to be meanineful in theory instruction. The definition suggested by the author is based upon the approached parture classification, and stated in a manner to avoid more than one meaning for the term. The appropriatura is lefthed as a nonharmonic tone approached by skip and resolved by step in the opposite direction, with the dissonant tone appearing in an accented metrical position. The rhythmic qualification is based upon frequency of use in harmonic practice.

By following a consistent system of lefinition, using the melodic characteristics of each device as the primary basis of classification, a device remains essentially the same pattern whether the

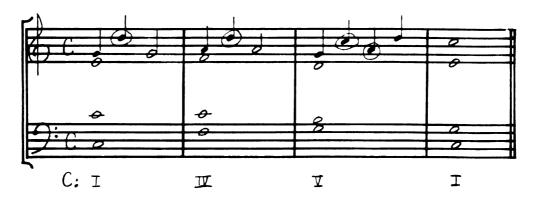
	! ! !

dissonant tone is accented or unaccented. In actual use a device may occur only as accented dissonance, as in the case of the suspension; it may occur only as unaccented dissonance, as in the case of the anticipation, or it may occur either as accented or unaccented dissonance, as in the case of the passing tone.

The more systematic presentations of nonharmonic tones given by McMose (1%), Reed (2%), Ottman (20) and Kohs (13), while they differ in a number of respects, are in agreement with this interpretation of the term <u>appossiatura</u>. They give the same definition of the term and define the nonharmonic tone as an accented dissonance. Equally significant is the fact the term <u>appossiatura</u> is reserved only for this particular device as defined, avoiding multiple meanings of the term.

## 9. Approached by Skip and Left by Skip.

Example 37.



The nonharmonic tone encompassed in this device is used infrequently in eighteenth- and nineteenth-century harmonic practice. As a nonharmonic tone, by definition it must be dissonant to at least one of the chords with which it appears. The effect of its resolution by skip is that of an unresolved dissonance. In the same way, an approach by skip is not characteristic of the melodic use of dissonance, but

rather tends to give this device more harmonic significance.

This device has been variously referred to as a <u>massing tone</u>, auxiliary, neighboring tone, changing tone, and free tone. The term free tone is more commonly in use in a few recent harmony books, and is suggested as the most suitable choice of terminology. All of the other terms applied to this device are used with multiple meanings, and therefore of limited usefulness to identify this particular device. Some of the various alternate names originated through the inclusion of patterns in which the molodic line shipped to and from another chord tone. Tesent practice of classifying only dissonant tones as "non-harmonic" tones renders obsolete some of the definitions given alternate terms.

Of newharmonic devices because of the infrequency of its occurrence in eighteenth—and nine teenth—century harmony. Reed (24) illustrates the free tone as one of eight basic devices, but gives no further attention to it in his discussion of newharmonic tones. I hadon (14) disregards this device because it is found rarely in the music of Each. Some theorists indirectly relate this device to an unprepared suspension, or to an appropriature. A skip to the dissonant tone provides the appearance of a "free" tone, but in most cases the Hosonance theorems stepwise. A dissonant tone may be appropriately skip, or 1 ft by skip, but rarely both. An unresolved dissonance is selden found in much until the late nine teenth and conly trentieth centuries. Then a "free" tone does occur, it more often is not an actual dissonance, but a chord tone reached and left by skip, and is not to be classified as

<sup>1</sup>nced, p. 57.

Ī
1
• •
,   
i i
1

a nonharmonic tone.

nances and unresolved dissonance contributing to the increase of tension.

"Their importance then overshadows that of their resolutions, until finally the resolution may be omitted entirely and the non-chord tone is accepted into the chord itself."

Limiting the classification of nonharmonic tones to those devices used during the period of tonal music represented by the style of the Rach chorales, the unresolved nonharmonic tone is so unusual as to require no particular classification or terminology for pedagogical purposes.

The basic nonharmonic devices examined above are those that contain only one dissonant tone and which are identified by the interval of approach, the interval of departure, and the metrical position of the dissonance in the measure. Not all patterns of usage possible under this type of analysis are found in actual use, however. Those patterns that satisfy the need for both tension and relaxation in a melodic sense have been most frequently employed by composers.

### Combined Monharmonic Devices

The nine basic single-tone nonharmonic patterns discussed above represent the total possibilities of nonharmonic usages in which only one dissonant tone is used. Additional nonharmonic patterns are possible in combination devices. A nonharmonic "device" is understood to consist of a pattern of three or more tones, including an initial chord tone which is the tone of approach, one or more dissonant tones, and a

lgatner, p. 163.

tone of resolution. Three general types of combined nonharmonic usages may be identified.

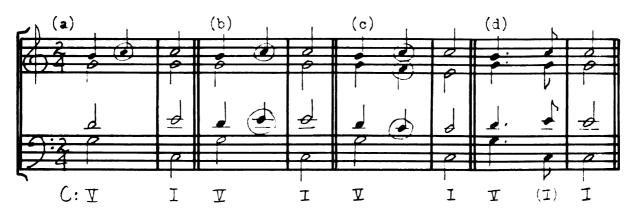
- 1. Patterns in which two or more nonharmonic devices occur simultaneously in different voices.
- 2. Patterns in which two or more nonharmonic devices occur successively in the same voice.
- 3. Patterns in which two or more tones appear between the tone of approach and the tone of resolution.

The first type, the combination of two or more nonharmonic tones simultaneously, may involve the same device or different devices. For example, a passing tone may be used with another passing tone, or a passing tone may be used with a suspension. Nonharmonic tones used simultaneously in two, three, and four voices are called double, trible, and quadruple nonharmonic tones. The occurrence of the same device simultaneously in four voices, the quadruple nonharmonic tone, is used very infrequently. Nonharmonic usage requires that at least one tone of the preceding or the following chord be heard against the dissonant tones. When quadruple nonharmonic tones occur in four-part writing and all voices move in such a way that they are consonant with each other, a new chord results and no dissonance occurs. In regard to terminology, an entire chord which thus anticipates the following chorl in all voices is not properly called an "anticipation" in the nonharmonic sense. The "anticipation" in this case is rhythmic, the harmony progressing in advance to the chord which would normally occur on the following beat.

Example 38a illustrates a single anticipation, 38b a double anticipation, and 38c a double anticipation combined with a passing tone in the alto voice. The chords containing nonharmonic tones in Examples 38b and 38c may be analyzed theoretically as tonic six-four

chords. The continuation of the dominant in the bass gives the aural effect of three nonharmonic tones until the expected chance of harmony is reached on the following beat. The analysis indicated by the harmonic rhythm allows these examples to be identified as nonharmonic devices. Example 38d illustrates a rhythmic anticipation of the tonic chord, in which no dissonance is present.

Example 38.



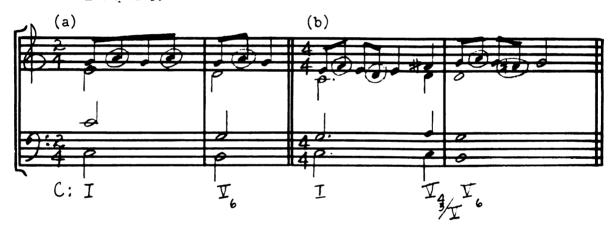
The most frequent occurrence of the double, triple, and quadruple non-harmonic tones is found in the use of passing tones.

The main principle guiding the use of nonharmonic tones combined simultaneously is that no usage is permissible which allows faulty voice progressions or objectional parallel movement of voices. Otherwise, each nonharmonic device in simultaneous combination is a single entity and is treated as any single-tone nonharmonic device. No special names are found applied to devices in simultaneous combination, therefore the problem of terminology and definition does not arise in relation to double, triple, and quadruple nonharmonic tones. Terminology is of greater concern relative to the combination devices which use two or more nonharmonic tones successively in the same voice.

<sup>&</sup>lt;sup>1</sup>For a detailed discussion of single, double, triple, and quadruple passing tones, see McHose (14), page 105.

The second type of combined devices, the occurrence of two or more nonharmonic devices in succession in the same voice, may be analyzed as successive single-tone devices. No special analysis or terminology is required other than that provided by the classification system for single-tone devices. The repetition of neighboring tones is the most common form of this usage. Typical patterns are those in which an upper neighboring tone is repeated (Example 39a), and those in which upper and lower neighboring tones appear in alternation (Example 39b).

Example 39.



The device illustrated in Example 39b has been confused by the use of a number of terms to identify it. The terms changing note, alternating tone, auxiliary tones, embellishing tones, and note cambiata are among those used for this device by theorists. The problem of nomenclature is solved simply by analyzing the pattern as two consecutive neighboring tones, upper and lower. This analysis places the device in the single-tone classification and requires no additional terminology which might confuse the analysis and description of the device.

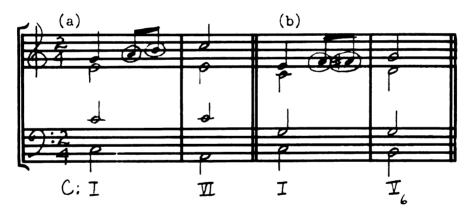
The third type of combined nonharmonic tone usage, in which two or more tones appear between the tone of approach and the tone of

resolution, is identified by a variety of terms and descriptions. In reference to the approach-departure classification, these devices may be placed in two categories.

- 1. Patterns in which the dissonant tones are approached and left scalewise in the same direction.
- 2. Patterns in which the dissonant tones are approached and left in opposite directions.

The first category is a passing tone device which employs two or more dissonant tones in succession between the tone of approach and the tone of resolution. This pattern is found often in a melodic movement from dominant to tonic, through scale degrees 5-6-7-8 (Example 40a). Two or more dissonant tones may occur in chromatic movement between scale degrees, providing chromatic passing tones (Example 40b).

Example 40.



The second category of devices classified under type three includes a variety of ornamental devices in which a dissonant tone moves to another tone, either consonant or dissonant, before moving with a change of direction to the tone of resolution. This pattern generally is characterized by a skip of a third between two dissonant tones, both of which are neighboring tones of the tone of resolution.

The earliest form of this device to be identified by a specific name is known historically as the nota cambiata. The term, of Italian

origin, means literally "exchanged note." The device has been in use sine the period of early polyphony, and was first associated in print with the term cambiata, more commonly known as changing tone, by Johann Joseph Fux in 1725. The term has been in continuous use since that time, and historically may be recognized as an appropriate term for this device (Example 41).

Example 41.



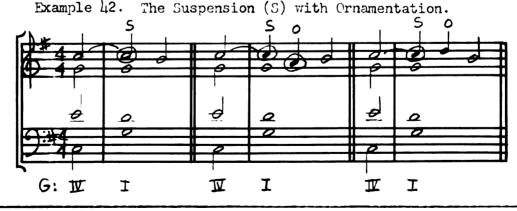
Much confusion has resulted from the indiscriminate application of the term "changing tone" to most of the various nonharmonic devices containing two or more dissonant tones. If the term is applied to any device on the basis of historical usage, its use must be reserved for the particular device shown in Example 41 in order to avoid endless confusion of terminology. The general misapplication of this term during the past sixty years has resulted in a seemingly insurmountable degree of confusion among theorists. The term changing note might well be added to the list of obsolete terms which have proved inadequate for the more precise methods of analysis required in twentieth century bedagogy.

The first explicit clarification of analysis and terminology

Johann Joseph Fux, Steps to Parnassus, Frans. and ed. by Alfred Mann (New York: W. W. Horton and Co., 1943), p. 51.

for this category of nonharmonic devices was given by N. (Even Reed in Basic Music.) Dr. Reed recommends that nonharmonic devices containing two or more tones between the tone of approach and the tone of resolution be analyzed as basic single-tone nonharmonic devices with ornamental resolutions. In referring to some of the devices labelled changing tones by theorists, Dr. Reed states, "An astounding lack of uniformity exists in the nomenclature of these (as well as other) nonharmonic tones. It is in the hope of bringing some order to this chaos that the 'ornamental tone' analysis, so consistently applied to the suspension pattern, is recommended here." The problem of terminology and definition is greatly simplified by the consistent use of this analysis for all devices in this category. All ornamental devices may be related to the underlying single-tone device, thus requiring no additional nonharmonic terms for identification or classification.

The following devices are analyzed by Reed as basic devices with ornamental resolutions of the dissonant tone. Each example gives the basic device first, followed by the same device with ornamental resolution. Each ornamental tone is analyzed with the abbreviation "O".

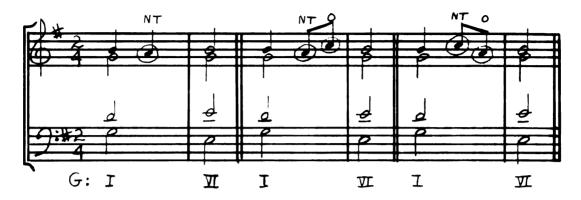


1H. Owen Reed, Basic Music (New York: Mills Music, Inc., 1954).

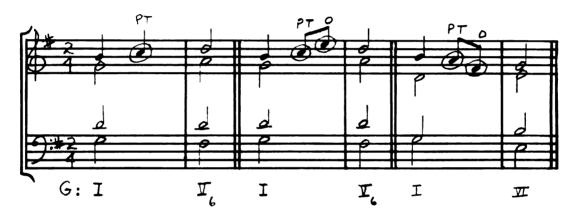
<sup>&</sup>lt;sup>2</sup>Ibid., p. 58.

<sup>3&</sup>lt;sub>Tbid</sub>.

Example 43. The Meighboring Tone (NT) with Ornamentation.



Example 44. The Passing Tone (PT) with Grnamentation.



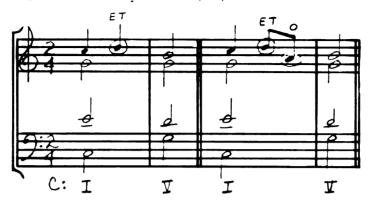
The same analysis may be applied to the apposgiatura and to the escape tone when these devices are embellished by ornamental tones. Each device is identified by the basic pattern of approach and departure which underlies the embellished device.

Example 45. The Appoggiatura (App) with Ornamontation.



		*	

Example 46. The Escape Fone (ET) with Ornamentation.



The avoidance of the term "changing tone" and other terms which have been used in a broadly descriptive manner for a number of devices eliminates a source of great confusion in the pedagogy of theory. The classification and terminology of nonharmonic tones is in this way limited to nine basic categories with only nine terms used to identify all possible devices. The concept of ornamental patterns imposed upon the basic devices provides for the inclusion of every possible pattern found in eighteenth- and nineteenth-century music. A summary of the terminology variants used in the thirty-two books of the Scloot Bitliography is given in Appendix II. The use of the above suggested classfication and terminology reduces this complexity of nonharmonic terms to a system of analysis and nomenclature which is much more practical for purposes of instruction in music theory.

		ı

#### CHAPTER V

#### SUPERARY AND CONCLUSIONS

This study was undertaken to investigate the terminology variants applied to nonharmonic tones in the bedagogy of music theory and the variety of definitions given for nonharmonic tone nomenclature. Two hypotheses were established for the study, (1) that theory instruction can be more effective and learning can be facilitated by the establishment of a logical system of nonharmonic tone nomenclature, and (2) that a systematic classification of nonharmonic tones can provide a basis for a standardized nomenclature. A supplementary background for the study was established through an examination of literature concerned with symbols of communication in music, and a study of nonharmonic tones as a function of dissonance in the evolution of harmony.

There is little disagreement among music theorists regarding the appropriate content of basic harmony courses which deal with eight-teenth and nineteenth century music theory. The lack of a standard terminology in music theory, however, is recognized by most teachers of the subject as a distinct handicap to pedagogy. The problem of nomenclature is being met with attempts to reorganize and re-structure the classifications of nonharmonic devices in numerous harmony text-books published in recent years. With larger music theory classes and a decrease in the amount of time devoted to individualized instruction in music, the need for greater standardization of nomenclature becomes

more apparent. Standardization of nomenclature is just as essential for effective communication in music theory instruction as it is in other subject fields.

A system of naming in the biological sciences has long been established in the binomial system. Each species is given two names, the first being the genus to which a species belongs, and the second being the species name. A most important characteristic of a nomenclature system is that duplication of names is avoided. No such systematic approach to nonharmonic tone nomenclature has been established, nor, to the author's knowledge, has any comprehensive study been made of nonharmonic tone terminology to establish a basis for a systematic naming and defining of terms.

This study indicates that the primary problem in arriving at a logical system of nomenclature lies in the manner of classifying nonharmonic tones. An examination of the terminology used during the past two hundred years reveals that names change their meanings, and consequently nonharmonic tone terms acquire a number of different meanings through attempts to clarify definitions. There is a tendency to adhere to familiar terms, even though the concepts embodied in them undergo change as a result of new insights into analysis. As a result, the numerous definitions given commonly used terms appear to be a greater source of confusion in the pedagogy of theory than the choice of terminology itself. On the other hand, actempts to establish new terminology for nonharmonic devices has contributed little to a clarification of the problem. Too many concepts and definitions have become attached to the terminology.

Duplication of names and multiple definitions, in many instances, have resulted from inadequate plassification or from the complete absence of any system of classification. That is needed is a precise definition for each term, an established concept for each symbol. An attempt has been made in this study to organize nonharmonic devices in a systematic fashion and to provide a logical basis for a system of nomenclature.

The classification system proposed here attempts to establish a name for each device which has historical authority for its use and which has current acceptance. An examination of the various possible ways of classifying nonharmonic devices indicates that a melodic approach is the most useful basis for primary classification. Duplication in classification and terminology can be avoided by describing each device in terms of its melodic approach and departure as the primary basis of classification. Sub-classification can be established through the use of secondary characteristics of the devices. Specifically, the direction of melodic movement, the metrical position of the dissonant tone, and the direction of resolution in relation to the direction of approach are characteristics which distinguish similar devices where secondary distinctions are required. Applying these principles of classification to the nonharmonic devices of the eightcenth and nineteenth century harmonic styles, the following system of nomenclature is proposed. The definition of each proposed term is based upon its description in the approach-departure classification.

# Dingle Tonburn nic Devices

#### 1. Approached by prolomention and Left by Prolomeation.

Pedal Point: A tone approached by preparation and sustained, usually in the bass, while the other voices move through a succession of chords which ereate a dissonant relationship with the custoined tone. The polal point begins and ends as a chord tone, with the resolution by prolengation.

## 2. Ambroached by Prolongation and Left by Skip.

suspension: An accented nonharmonic tone approached by preparation, either tied or repeated, which resolves stepwise on an unaccented portion of the measure, usually downward.

#### 3. Approached by Prolongation and Left by Skip.

In traditional harmonic practice this pattern is regarded as an incomplete nonharmonic device containing an unresolved dissonance, and as such is not given an identifying term. If the dissonant tone is resolved in another voice of the chord of resolution, the resulting pattern may be classified as an irregular form of the suscension, rarely found in the music of the eighteenth and nineteenth centuries.

## 4. Approached by Step and Left by Prolongation.

Anticipation: A nonharmonic tone approached by step and occurring in a weak rhythmic position, which resolves on an accental beat with a change of harmony.

# 5. Approached by Step and Left by Step.

Passing Tone: A nonharmonic tone approached by step and resolved by step in the same direction. The passing tone may be accented or unabsented.

Heighboring Tone: A nonharmonic tone approached by step, either upward or downward, and resolved by step in the opposite direction. The neighboring tone may be accented or unaccented.

# 6. Approached by Step and Left by Skip.

Escape Tone: A nonharmonic tone approached stepwise in an upward direction and resolved by a skip of a third in the opposite direction with a change of harmony.

# 7. Approached by Skip and Left by Prolongation.

This nonharmonic pattern occurs infrequently in eighteenth and nineteenth century music and therefore is not given a distinguishing name in this classification. It may be regarded as an irregular form of the anticipation.

!
1

#### 8. Approached by Skip and Left by Step.

Appropriatura: A nonharmonic tone approached by skip and resolved by step in the opposite direction, occurring on an accented or unaccented beat of the measure.

#### 9. Approached by Skip and Left by Skip.

Free Tone: A nonharmonic tone approached by skip and left by skip in the opposite direction.

#### Combined Monharmonic Devices

The nonharmonic devices combined simultaneously in two or more voices require no special terminology. Each device used in this way is a single nonharmonic tone device and is identified according to its approach and departure as one of the basic devices described above. Devices which are used in succession as repetitions of a single device likewise are identifiable as basic single-tone devices and are analyzed as such, requiring no additional terminology or classification for their identification.

The approach-departure classification of nonharmonic tones results in a total of nine distinct patterns which are named and defined for pedagogical purposes. The terminology evolved from this classification is proposed as a complete nonharmonic tone nomenclature.

#### Complete Monharmonic Tone Momenclature

- 1. Pedal Point
- 2. Juspension
- 3. Anticipation
- 4. Passing Tone
- 5. Neighboring Tone
- 6. Escape Tone
- 7. Appoggiatura
- 8. Free Tone
- 9. Crnamental Tone

1
1
1
1
1
1

The proposed nemenclature of nine terms, when defined in reference to the approach-departure system of class fication above, encompasses all the standard patterns of nonharmonic tone usage which recur in eighteenth and nineteenth century harmonic practice. A specific definition for each term based upon an approach-departure analysis identifies each device by description, and precludes the use of the same term for more than one device. Uncountial variations that may be found in these basic devices may be explained in reference to the basic device in question without the necessity for additional terms or definitions. The infrequent variations which may be encountered are largely ornamental in nature, without sufficient deviation to obscure the basic pattern or to necessitate the combounding of terminology. An examination of any ornamented pattern with the ornamental tones omitted reveals the basic pattern as one of the devices described above.

The following generalizations may be made from the approachdeparture classification of nonharmonic tones.

- 1. Dissonant tones tend most strongly to resolve stepwise up or down. Resolution by prolongation occurs less frequently, and resolution by skip may be regarded as an exception.
- 2. A dissonant tone approached by skip tends to resolve stepwise in the opposite direction.
  - 3. Accented nonharmonic tones resolve stepwise up or down.
- 4. Unaccented nonharmonic tones may resolve by prolongation, step, or skip.
- 5. The approach and departure are classifying factors in all nonharmonic tones.

#### Johnlusions

- 1. An examination of the music theory textbooks used for this study reveals a great variety of terms used to identify negharmonic tones. No consistent relationship is found between the devices described and the terms or symbols used to represent them.
- 2. More variety exists in the definition of nonharmonic terms than in the choice of terminology itself.
- 3. No two theorists appear to agree entirely in the terminology and definitions of nonharmonic tones.
- 4. A large percentage of theory textbooks contain no systematic presentation of nonharmonic tones.
- 5. The confusion of nomenclature and the use of multiple meanings of terms is more extensive in those textbooks which present no systematic classification of nonharmonic tones.
- 6. Recently published textbooks devote more attention to nonharmonic tones and present them in a more systematic manner than do obler textbooks. There is no general agreement in matters of classification and nonenclature.
- 7. Honharmonic tones can be presented in a systematic manner to facilitate instruction and learning.
- 3. A logical and systematic classification of nonharmonic tones is a prerequisite to a consistent nomenclature.
- 9. A system of classification using a melodic approach and departure analysis is the most inclusive system upon which to base a nomenclature.

10. Perminology can be defined to avoid the most of a term for more than one basic device and to avoid multiple definitions of terms by basing definitions upon an approach-departure classification of nonharmonic devices.

A consensus of music theorists regarding nonharmonic tones is needed to establish a systematic nomenclature. Consensus might best be achieved through the offices of professional organizations concerned with music education, such as the Tusic Educators' Mational Conference, and the Music Teachers' Mational Association. The author offers this proposal for classification and terminology of nonharmonic tenes for the consideration of music theorists and teachers of music theory.

		į
		!
		\ 
		1

#### APPENDIX I

#### SELECT BIBLIOGRAPHY

- 1. Alchin, Carolyn A. Applied Harmony. 2i ed. revised. Los Angeles: L. R. Jones, 1935, ix, 173 p.
- 2. Bridge, Frederick, and Sawyer, Frank J. A Course of Marmony.
  London: Movello & Co., Ltd., n.d., vi, 209 p.
- 3. Chadwick, George W. Marmony. Boston: The B. F. Wood Husic Co., 1897, 236 p.
- 4. Chapple, Stanley. Language of Harmony. New York: Boosey Wawkes Belwin, Inc., 1941, 127 p.
- 5. Emery, Stephen A. Elements of Harmony. Rev. cd. Boston: Arthur P. Schmidt Co., 1924, 131 p.
- 6. Foote, Arthur, and Spalding, Walter R. Modern Farmony in its Theory and Practice. Rev. ed. Boston: The Arthur P. Schmidt Co., 1959, 263 p.
- 7. Forte, Allen. Tonal Harmony in Concept and Practice. New York: Holt, Rinehart and Winston, 1962, vi, 503 n.
- 8. Goetschius, Percy. The Theory and Practice of Tone-Relations.
  New York: G. Schirmer, Inc., 1917, 174 p.
- 9. Heacox, Arthur E., and Lehmann, Friedrich J. Lessons in Harmony. Oberlin, Ohio: A. G. Comings & Son, 1931, ix, 237 p.
- 10. Hindemith, Paul. Traditional Harmony. Rev. ed. Mew York:
  Associated Music Publishers, Inc., 1944, vi, 125 p.
- 11. Hull, A. Eaglefield Modern Harmony. London: Augener, Ltd., £1914, xiii, 235 p.
- 12. Kitson, Charles H. The Evolution of Harmony. 2d. ed. London: Oxford University Press, 1924, xii, 156 p.
- 13. Kohs, Ellis P. Music Theory. Vol. I. New York: Oxford University Press, 1961, x, 125 p.

Ì	
1	
1	
1	
,   	
İ	
1	
1	

- 14. McHose, Allen Ervine. The Contrabuntal Marmonia Technique of the 18th Century. New Mork: Appleton-Tentury-Profits, Inc., 1947, Evi, 438 p.
- 15. Mitchell, Milliam J. Elementary Harmony. 2d ed. New York: Prentice-Mall, Inc., 1908, xiv, 290 p.
- 16. Morris, A. C. The Oxford Harmony. Vol. I. Hew York: (xford University Press, 1946, 139 p.
- 17. Murphy, Howard Ansley, and Stringham, Edwin John. <u>Creative Harmony and Susicianship</u>. New York: Prentice-Vall, Inc., 1951, 618 p.
- 18. Norman, Philip B. Harmony. New York: Consolidated Music Publishers, Inc., 1955, iii, 122 p.
- 19. Morris, Homer A. Practical Harmony. Philadelphia: Theodore Presser Co., 1894, 215 p.
- 20. Ottman, Robert W. Elementary Marmony: Theory and Practice. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1961, xiv, 286 p.
- 21. Piston, Walter. Harmony. 31 ed. Mew York: W. W. Morton & Co., Inc., 1962, x, 374 p.
- 22. Prout, Ebenezer. Harmony: Its Theory and Practice. London: Augener & Co., 1889.
- 23. Rather, Leonard R. Harmony: Structure and Style. New York: McGraw-Hill Book Co., Inc., 1962, vii, 236 p.
- 24. Reed, H. Cwen. Pasic Music. Mew York: Mills Music, Inc., 1984, v, 157 p.
- 25. Richter, Ernst Friedrich. Manual of Harmony. 16th ed.
  Translated from the fifth German edition by John P.
  Morgan. New York: G. Schirmer, 1889, xii, 219 p.
- 26. Rimsky-Korsakov, N. Practical Manual of Marmony. Fifth English ed., translated from the 12th Muscian cd. by J. Achron. Mew York: Carl Fischer, 1943, 142 p.
- 27. Robinson, Franklin W. Aural Harmony. New York: G. Schirmer, 1923, 238 p.
- 28. Schenker, Heinrich. Harmony. Trans. by Elisabeth Mann Borgese. Chicago: The University of Chicago Press, 1954, xxxii, 359 p.

•	

- 29. Schillinger, Joseph. The Schillinger System of Musical Somposition. 2 vols. New York: Sarl Fischer, Inc., 1741, 2 v. (xxiv, 1640 p.).
- 30. Sessions, Roger. Marmonic Practice. New York: Harcourt, Brace 2 00., 1951, Mal p.
- 31. Tweedy, Donald. <u>Manual of Marmonic Technique</u>. Roston: Oliver Ditson Co., 1928.
- 32. Wedge, George A. Applied Harmony. Vol. I. New York: G. Schirmer, Inc., 1930, viii, 165 p.

# APPEN IX TT

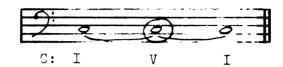
# CLASSIFYING TERRITOOLOGY FOR THE MINE BASIS NOMMARKONIC DEVISES

Each of the nine basic devices is given a number of names by theorists, with distinctions in terminology often based upon details of usage in a specific musical context. More than one term sometimes is used for the same nonharmonic device in a given textbook. Some theorists apply the same term to more than one device, and to tones which are consonant as well as to those which are dissonant. Terminology variants for each device are based upon one or more of the following considerations, according to whether the dissonant tone

- 1. is accented or unaccented
- 2. is approached upward or downward
- 3. is resolved upward or downward
- 4. is tied or not tied
- 5. appears as a note value which is metrical (having a duration of the metrical unit or larger) or submetrical (having a duration of less than the metrical unit)
- 6. is resolved immediately or with a delayed resolution
- 7. is resolved directly in the same voice or indirectly in another voice
- 8. appears with the same chord as the chord of approach or with a different chord
- 9. appears with the same chord as the chord of resolution or with a different chord
- 10. appears in the bass or in an upper voice
- 11. is used in a slow tempo or in a fast tempo.

The terms given in the following tabulations are those which are found as general classifying terms for each basic device. The numbers correspond to the numbered entries of the Select Fibliography presented in Appendix I. The absence of a bitliography reference number indicates that the device was not identified with a specific name by the author of the textbook.

#### Approached by Prolongation and Left by Prolongation.



- 1. Pedal Point 2. Pedal 3. Pedal Point; Organ Point 4. Pedal Note 5. Organ Point; Sustained Note 6. Pedal Tote 7. Pedal Note 8. Organ Point 9. Pedal Point 11. Pedal 12. Pedal 13. Pedal Point 14. Pedal Point 15. Organ Point 16. Pedal
- 18. Pedal Mote 19. Pedal 20. Pedal Point 21. Pedal 22. Organ Point 23. Pedal Point 24. Pedal Point 25. Organ Point 26. Organ Point 27. Organ Point; Stationary Cons 28. Pedal Point 29. Podal Point 30. Pedal Point 31. Organ Point 32. Organ Point

## Approached by Prolongation and Left by Step.



V Ι

1. Suspension

17. Organ Point

- 2. Suspension; Retardation
- 3. Suspension; Inverted Suspension
- 4. Suspension
- 5. Suspension; Appoggiatura
- 6. Suspension
- 7. Suspension
- 8. Suspension
- 9. Suspension; Retardation
- 10. Suspension
- 11. Suspension
- 12. Suspension
- 13. Suspension
- 14. Suspension 15. Duspension
- 16. Suspension

- - 17. Juspension; Letardation
  - 18. Suspension; Retardation
  - 19. Suspension
  - 20. Suspension; Petardation
  - 21. Suspension
  - 22. Suspension
  - 23. Suspension

  - 24. Suspension 25. Suspension
  - 26. Suspension
  - 27. Buspension
  - 28. Suspension

  - 29. Suspension
  - 30. Buspension
  - 31. Tuspension
  - 32. Suspension

# 3. Approached by Prolongation and Left by Ckir.



1. Free Bytone 16. Delayed Tone 2. Driving Mote 17. Free Nonharmonic Tone 4. Suspension 18. Symcopation 22. Changing Note 6. Suspension 7. Incomplete Suspension 23. Jhanging Note 25. Unresolved Suspension 9. Crnamental Suspension 11. Suspension; Preparation 26. Suspension 12. Symcopation 29. Suspended Tone 15. Suspension 31. Unessential Tone

# 4. Approached by Step and Left by Prolongation.



## 5. Approached by Step and Left by Step.



- (a) The term passing tone is applied to the first pattern (a) in all of the textbooks listed in the Select Bibliography. Some theorists use the term appoggiatura for this device when the dissonant tone is accented.
- (b) A variety of terms is found for the second form (b) of this basic melodic device.
  - 1. Auxiliary
  - 2. Auxiliary Note
  - 3. Embellishment
  - 4. Passing Note
  - 5. Changing Mote
  - 6. Auxiliary Tone
  - 7. Auxiliary Note
  - C. Neighboring Note
  - 9. Embellishment
  - 10. Changing Tone
  - 11. Passing Note
  - 12. Auxiliary Vote
  - 13. Meighboring Tone
  - 11. Heighboring Tone
  - 15. Neighboring Tone
  - 16. Auxiliary

- 17. Appoggiatura
- 18. Auxiliary Note
- 19. Changing Mote
- 20. Neighboring Tone
- 21. Auxiliary Tone
- 22. Auxiliary Note
- 23. Neighboring Tone
- 24. Heighboring Tone
- 25. Auxiliary Tote
- 26. Imbellishing Note
- 27. Moighboring Tone
- 28. Changing Note
- 29. Auxiliary Jone
- 30. Neighboring Tone
- 31. Auxiliary Cone
- 32. Weighboring Tone

## 6. Approached by Item and Left by Ikin.



- 1. Free Anticipation
- 2. Auxiliary Note
- 3. Changing Tone; Irregular Anticipation
- 4. Passing Note
- 6. Changing Tone
- 7. Auxiliary Note
- 8. Irregular Anticipation
- 9. Free Anticipation
- 10. Neighboring Tone
- 11. Passing Note
- 12. Auxiliary Tote
- 13. Tchappée
- 11: Escape Tone
- 15. Indirect Anticipation
- 16. Melodic Decoration

- 17. Échappée
- 18. Échappée
- 19. Anticipation; Passing Note
- 20. Escaped Tone
- 21. Échappée
- 22. Thanging Mote
- 23. Escape Tone
- 24. Escape Tone
- 25. Changing Tote
- 26. Auxiliary Note
- 27. Adorning Tone
- 28. Anticipation
- 29. Auxiliary Tone
- 30. Free Meighboring Pone
- 31. Auxiliary Jone

## 7. Approached by Skip and Left by Prolongation.



- 1. Anticipation
- 2. Anticipation
- 3. Anticipation
- 4. Passing Mote
- 5. Skip Note; Anticipation
- 6. Anticipation
- 7. Anticipation
- E. Anticipation
- 9. Anticipation
- 10. Anticipation
- 11. Driving Mote
- 12. Anticipation
- 13. Anticipation
- 15. Anticipation
- 16. ubsidiary "ote

- 17. Anticipation
- 18. Free Anticipation
- 19. Anticipation
- 21. Anticipation
- 22. Anticipation
- 23. Anticipation
- 24. Anticipation
- 25. Anticipation
- 26. Unprepared Justichsion
- 27. Anticipation
- 20. Anticipation
- 29. Anticipation
- 30. Free Anticipation
- 31. Anticipation
- 32. Anticipation

		!
		,
		ı
		ĺ
		;
		į
		Ì
		; •
		1
		1
		4

## 8. Approached by Skip and Left by Step.



- 1. Appoggiatura
- 2. Appossiatura
- 3. Appoggiatura
- 4. Appoggiatura
- 5. Skip Note; Appoggiatura
- 6. Apporgiatura
- 7. Incomplete Auxiliary Note;
  Apportiatura
- 8. Unprepared Juspension
- 9. Appogriatura
- 10. Reighboring Tone
- 11. Appossiatura
- 12. Appoggiatura
- 13. Appoggiatura
- 14. Appoggiatura
- 15. Indirect Suspension;
  Incomplete Meighbor
- 16. Subsidiary Note

- 17. Appoggiatura; Acciaccatura
- 13. Free Anticipation
- 19. Appoggiatura
- 20. Appongiatura
- 21. Appoqqiatura; Cambiata
- 22. Auxiliary Mote; Uncosential Discord
- 23. Appoigiatura
- 24. Appoggiatura
- 25. Changing Note
- 26. Auxiliary Hote
- 27. Neighboring Tone
- 23. Duspension
- 29. Auxiliary Tone
- 30. Appogriatura
- 31. Charging Tone; Appropriatura
- 32. Appoggiatura

# 9. Approached by Skip and Left by Skip.



- 1. Free Tone
- 2. Unessential Note
- 3. Embellishing Tone; Irregular Anticipation
- 4. Passing Wote
- 5. Changing-note
- 6. Helodic Figuration
- 7. Incomplete Arpeggiation
- 8. Irregular Anticipation
- 9. Free Tone
- 10. Free Tone
- 11. Passing Tone
- 13. Unprepared Neighboring Tone
- 15. Incomplete Figuration
- 16. Melodic Decoration

- 17. Free Monharmonic Tone
- 18. Free Anticipation
- 19. Passing Note
- 22. Changing Note
- 23. Chordal Figuration
- 24. Free Tone
- 25. Free Changing Note
- 26. Free Melodic Figuration
- 27. Meighboring Tone
- 28. Elliptic Anticipation
- 29. Auxiliary Tone
- 30. Free Heighboring Tone
- 31. Changing Tone

#### BIPLICGRAPHY

#### Primary Sources

- Aldrich, Putnam. Ornamentation in J. S. Bach's Organ Works. New York: Coleman-Ross Company, Inc., 1950.
- Apel, Willi. Harvard Dictionary of Music. Cambridge: Harvard University Press, 1951.
- Bairstow, Sir Edward Cuthbert. Counterpoint and Harmony. 2d ed. London: Macmillan and Co., Ltd., 1945.
- Carner, Mosco. Twentieth Century Harmony. London: Joseph Williams, Ltd., 1942.
- Catel, Charles Simon. Traite de Marmonie. Paris: Mendel et Cie., 1802.
- Chilester, Harvin E. "A study of Come Fundamental Musical Terms."

  Unpublished Master's Thesis, Sam Mouston State Teachers

  College, Muntsville, Texas, 1953.
- Cooke, Deryck. The Language of Music. London: Oxford University Press, 1959.
- Cutter, Benjamin. Harmonic Analysis. Boston: Oliver Ditson Co., 1902.
- Dallin, Leon. Foundations in Music Theory. Pelmont, California: Wadsworth Publishing Co., 1962.
- Dallin, Leon. Techniques of Twentieth Century Composition. Dubuque, Iowa: Nom. C. Brown Company, 1957.
- Dolmetsch, Arnold. The Interpretation of the Music of the XVII and XVIII Centuries. London: Oxford University Press, n.d.
- Dunk, John L. The Structure of the Musical Scale. London: John Lane the Podley Head, 1740.
- Dunwell, Wilfrid. The Evolution of Twentieth Century Harmony. London: Novello and Co., Ltd., 1960.
- Garrett, Allen H. An Introduction to Research in Husic. Jashington, D. C.: The Catholic University of America Press, 1958.

- Grove's Dictionary of Music and Musicians. 5th ed. Ed. by Mric Blom. Hew York: Ut. Martin's Press, 1954.
- Hayakawa, S. I. Language in Action. New York: Harcourt, Frace and Co., 1941.
- Hindemith, Paul H. The Craft of Musical Composition. New York:
  Associated Music Publishers, 1945.
- Katz, Adele T. Challenge to Musical Tradition. Mew York: Alfred A. Knopf. 1945.
- Keys, Ivor. The Texture of Music. London: Dennis Dobson, 1961.
- Langer, Susanne K. Philosophical Sketches. Paltimore: The Johns Hopkins Press, 1962.
- Lenormand, René. A Study of Modern Harmony. English translation by Herbert Anteliffe. Poston: Boston Music Co., 1915.
- McHose, Allen Irvine. Pasic Principles of the Technique of 18th and 19th Century Composition. New York: Appleton-Century Crofts, Inc., 1951.
- McKay, George Frederick. The Technique of Modern Harmony. Ann Arbor, Michigan: Edwards Brothers, Inc., 1941.
- Miller, Horace Alden. <u>New Harmonic Devices</u>. Boston: Oliver Ditson Co., 1930.
- New Oxford History of Music. London: Oxford University Press, 1954-
- Niecks, Frederick. Dictionary of Musical Terms. 2d ed. London: Augener, Ltd., [1884].
- Oxford English Dictionary. Oxford: Clarendon Press, 1933. 13 Vols.
- Packard, Donald Wheeler. "Deven French Theorists of the Minetechth Century." Unpublished Ph. D. dissertation, Department of Theory, University of Rochester, 1952.
- Persichetti, Vincent. Twentieth-Jentury Harmony. New York: W. A. Norton & Co., 1961.
- Piston, Walter. Principles of Harmonic Analysis. Boston: M. C. Schirmer Music Co., 1933.
- Rubbra, Edmund. Counterpoint. London: Mutchinson University Library, 1960.
- Salzer, Felix. Structural Hearing: Tonal Coherence in Music. New York: Dover Publications, Inc., 1957.

- Schillinger, Joseph. The Schillinger System of Musical Composition.

  New York: Carl Fischer, Inc., 1741.
- Schoenberg, Arnold. Structural Functions of Harmony. Tew York: J. J. Worton & Co., 1954.
- Schoenberg, Arnold. Theory of "armony. Tarmonielehre, translated by Robert D. W. Adams. New York: Philosophical Library, 1946.
- Shirlaw, Mathew. A Theory of Marmony. 2d. ed. Ockalb, Illinois: R. Coar, 1955.
- Stainer, Sir John, and Barrett, W. A. A Dictionary of Musical Terms.
  London: Movello & Co., Ltd., 1898.
- Tinctoris, Johannes. The Art of Counterpoint. Translated and edited by Albert Seay. American Institute of Musicology: Musicological Studies and Documents, No. 5, 1961.
- Tischler, Hans. "A Systematic Presentation of Non-harmonic Motes", Music and Letters, (Vol. XXXVIII, 1957).
- Turner, Tom. "A Proposal for a Stabilized Nonchord Tone Momenclature,"
  American Music Feacher, Vol. III, No. h (March-April, 1954).
- Wager, Willis J., and McGrath, Earl J. Liberal Education and Music.
  A Publication of the Institute of Higher Education.
  New York: Bureau of Publications, Teachers College,
  Columbia University, 1962.
- Walker, Alan. A Study in Musical Analysis. New York: The Free Prous of Glencoe, 1962.
- Weber, Max. The Rational and Social Foundations of Music. Trans. and ed. by Martindale, Riedel, and Neuwirth. Carbondale: Southern Illinois University Press, 1998.
- Weidig, Adolf. Harmonic Material and its Uses. Chicago: Clayton F. Swamy Co., 1923.
- Wishart, Peter. Marmony. London: Mutchinson's University Library, 1956.
- Zuckerkandl, Victor. Sense of Music. Princeton, H. J.: Princeton University Press, 1959.

#### Secondary Sources

- Abbott, Lawrence. The Listener's Rook on Parmony. Philadelphia: Theodore Presser Co., 1941.
- Albrechtsberger, Johann Georg. Methods of Tarmony, Figured Bass, and Composition, Adapted for Self Instruction. Translated from last Paris edition by Arnold Merrick. London: R. Cocks & Co., 1834.
- Andrews, Hilda. Modern Marmony: An Elementary Analysis. London: Oxford University Press, 1934.
- Aristoxonus: The Harmonies of Aristoxonus. Edited with translation and index of words by Henry U. Macran. (xford: Clarendon Press, 1902.
- Paldwin, Ralph Lyman. Marmony Simplified. Pooks I and II. New York: M. Mitmark & Sons, 1933.
- Billings, William. The Continental Harmony. Ldited by Hans Nathan. Cambridge, Mass.: Telknap, 1961.
- Boyd, Charles Newell. Elements of Nusicel Theory. Vol. I. New York: G. Schirmer, Inc., 1938.
- Buck, Percy Carter. Unfigured Harmony. Oxford: Clarendon Press, 1939.
- Bullis, Carleton. Harmonic Forms. Cleveland, Chio: The Clifton Press, 1939.
- Co., Ltd., 1962.
- Cowell, Henry. New Musical Resources. New York: Alfred A. Knopf, 1930.
- Denny, James. Exford school Marmony Course. 2 vols. London: Exford University Fress, 1961.
- Diller, Angela. First Studies in Harmonic Analysis. New York: Harold Flammer, 1925.
- Diller, Angela. Tirst Theory Book. New York: 3. Schirmer, Inc., 1921.
- Duncan, Edmondstone. <u>Melodies and Mow to Marmonize Them.</u> Boston: T. J. Dolan, 1906.
- Finney, Ross Lee. The Same of Harmony. New York: Harcourt, Brace and Co., 1947.
- Fowles, Ernest. Ear, Eye, and Hand in Harmony Study. Wew York: Oxford University Press, 1928.

Ì	
i I	
<u> </u>	
\ •	
ì	
j	
! 	
1	
1	
1	

- Frackenpohl, A. R. Harmoniustion at the Piano. Subuque, Iowa: Who. S. Trown Jo., Publishers, 1962.
- Bannet, Kent. Pach's Harmonic Progressions. Philadelphia: (liver Ditson Jo., 1942.
- Goetschius, Percy. The Material Used in Musical Composition. New York: O. Schirmer, Inc., 1949.
- Haydon, Glen. The Evolution of the Six-Four Chord: A Chapter in the History of Dissonance Treatment. Berkeley, Datifornia: University of California Press, 1933.
- Headox, Arthur Edward. Harmony for Ear, Eye, and Keyboard. Poston: Cliver Ditson Co., 1922.
- Jacobs, Robert Louis. Harmony for the Listener. London: Oxford University Press, 1955.
- Jadassohn, Jalomon. A Manual of Marmony. Translated from the third revised Terman edition by Dr. Theolore Faker. New York: O. Schirmer, Inc., 1393.
- Johnson, H. Parham. Keyboard Harmony for Deginners. Sondon: (xford University Press, 1947.
- Jousse, J. A Catechism of Dunic. Mewly revised and edited by Dr. Theodore Baker. New York: G. Schirmer, Inc., 1891.
- Kitson, Charles Herbert. Contrapuntal Marmony for Perinners. London: Oxford University Press, 1931.
- Kitson, Charles Herbert. Elementary Farmony. London: Oxford University Press, 1920.
- Lehman, Friedrich Johann. Harmonic Analysis. Coerlin, Chio:
  A. G. Comings & Son, 1910.
- Levarie, Siegmund. Fundamentals of Harmony. New York: Ronald Press 30., 1954.
- Lewis, Leo Rich. Do and Don't in Harmony: A Cketch-Pook of Essentials.

  Medford, Mass.: Tufts College Press, 1743.
- Lieberman, Maurice. Keyboard Harmony and Improvisation. 2 Vols. New York: W. W. Morton & Co., In., 1957.
- Liepmann, Klaus. The Language of Music. Mew York: The Ponald Press So., 1953.
- Howinsky, Edward E. Tonality and Atonality in Sixteenth-Jentury Music.

  Berkeley, California: University of Jalifornia Press, 1961.

- Lowry, Margaret. Keyboard Approach to Tarmony. Philodel hia: Theolore Presser Do., 1949.
- Marais, Paul des. <u>Marmony: A workbook in Funtamentals</u>. New York: W. J. Norton & Co., Inc., 1962.
- McConathy, Osbourne. An Approach to Farmony. New York: Jilver-Burdett Co., 1927.
- McCoy, William Johnston. <u>Cumulative Harmony</u>. New York: Ginn and Company, 1916.
- McHose, Allen Irvinc. An Outline Syllabus of Harmony. Rochester, lew York: Eastman School of Husic, 1933.
- McKinley, Carl Keister. Harmonic Relations. Boston: Yew England Conservatory of Music, 1944.
- Macpherson, Stewart. Melody and Harmony. London: Joseph Williams, Ltd., 1920.
- Horris, Reginald (Wen. Figured Harnony at the Keyboard. London: Cxford University Fress, 1932.
- Morris, Reginald Oven. Foundations of Fractical Harmony and Counterpoint. 2d ed. rev. London: Macmillan & Co., (td., 1913.
- Imphy, Moward Angley, and Melcher, Robert A. Music for Study:

  A Source Book of Excerpts. Englewood Cliffs, M. J.:

  Prentice-Hall, Inc., 1960.
- Murphy, Moward Ansley. Teaching Musicianship: A Manual of Methods and Materials. Boston: Joleman-Ross Co., 1956.
- Orem, Preston Ware. Student's Harmony Pook. Rev. ed. Evanston, Illinois: Summy-Birchard Publishing Co., 1955.
- Orrey, Leslie. Foundations of Harmony and Composition. New York: Pitman Publishing Corp., 1945.
- Ottman, Robert N. Advanced Harmony. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1961.
- Otterstrom, Thorvald. Manual of Harmony. Chicago, Ellinois: University of Chicago Press, 1941.
- Pasfield, W. R. Harmony. London: Jeckes Publishing Co., n.d.
- Pound, Ezra Loomis. Antheil and the Treatise on Harmony. Chicago: P. Covici, Inc., [1927].
- Richardson, Alfred Madeley. The Medieval Modes. New York: H. W. Gray Co., 1933.

- Robertson, Anna. Music is Tonal Magnetism. Feston: Coleman-Ross Company, 1946.
- Robinson, Raymond Clerk. Mermony, Elementary and Alvanced. Nev. el. Ann Arbor, Michigan: Edwards Proc., Inc., 1949.
- Scholes, Percy Alfred. The Regimer's Guid to Harmony. Bondon: Oxford University Press, 1)24.
- Zeovill, Modena Belle. <u>Meyboard Marmony</u>. New Mork: Jarl Fischer, Inc., 1939.
- Shepard, Frank Jartson. A Key to Harmony Simplified. New York: 3. Schirmer, Inc., 1908.
- Shinn, Frederick George. A Method of Teaching Harmony Pased Upon Systematic Ear-Training. London: Augener, 1924.
- Smith, Uselma Clarke. Keyboari Harmony. Boston: The Loston Mills Company, 1916.
- Stormen, Win. Link to Modern Music Instruction. New York: Frown Book Co., 1958.
- Papper, Thomas. First Year Harmony. Evanston, Illinois: Danny-Director Publishing Co., 1980.
- Tillis, W. Chords and Discords. London: Phoenix Press, 1960.
- Tischler, Hans. Practical Harmony. Bookleigh, Tew Horsey: Allyn and Bacon, 1957.
- Thostenson, Marvin S. Pundamentals, Harmony and Musicianship.

  Oubuque, Iowa: Win. C. Brown Company Mublishers, 1963.
- Toch, Erast. The Chaping Forces in Music. New York: Oritorion Ducic Dorp., 1748.
- U. S. Pureau of Maval Personnel. Harmony. Mashington, D. J.: U. S. Government Printing Office, 1962.
- Warburton, Annie Caborne. Harmony. London: Longmans, Green and Co., 1952.
- Warburton, Annie Osborne. <u>Melody Writing and Analysis</u>. London: Longmans, Green and Go., 1956.
- Marrington, Johnny. Modern Marnony, for the Dance Bard Arran fer. Dd. by Dick Jacobs. New York: Bregman, Tooco and Conn, 1948.
- Wedge, George Anson. Keyboard Harmony. Mew York: 3. Schirmer, Inc., 1924.

- White, William Alfrel. <u>Harmony and Jar Training</u>. New York: Silver-Burdett Co., 1997.
- Whitney, Maurice C. Packgrounds in Harmony. Wew York: 0. Behirmer, Inc., 1960.
- Wood, Carl Paige. Ear Tests in Harmony. Tow York: American Mook Co., 1996.
- Moodhouse, F. The Art and Theory of Music. New York: Pitman Publishing Norp., 1988.

# ROOM USE ONLY

