

## Beethoven Waldstein Sonata Harmonic Analysis

Introducing a new theory of musical form for the analysis of instrumental music of the classical style. The book provides a broad set of principles and a comprehensive methodology for analysing phrases and themes to complete movements. Illustrated with over 250 annotated musical examples by Haydn, Mozart and Beethoven.

The first detailed study of a prolific and influential early twentieth-century composer, critic, educator—a true sage of music.

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An examination of how the scientific study of sound sensation became increasingly intertwined with musical aesthetics in nineteenth-century Germany and Austria. In the middle of the nineteenth century, German and Austrian concertgoers began to hear new rhythms and harmonies as non-Western musical ensembles began to make their way to European cities and classical music introduced new compositional trends. At the same time, leading physicists, physiologists, and psychologists were preoccupied with understanding the sensory perception of sound from a psychophysical perspective, seeking a direct and measurable relationship between physical stimulation and physical sensation. These scientists incorporated specific sounds into their experiments—the musical sounds listened to by upper middle class, liberal Germans and Austrians. In *The Psychophysical Ear*, Alexandra Hui examines this formative historical moment, when the worlds of natural science and music coalesced around the psychophysics of sound sensation, and new musical aesthetics were interwoven with new conceptions of sound and hearing. Hui, a historian and a classically trained musician, describes the network of scientists, musicians, music critics, musicologists, and composers involved in this redefinition of listening. She identifies a source of tension for the psychophysicists: the seeming irreconcilability between the idealist, universalizing goals of their science and the increasingly undeniable historical and cultural contingency of musical aesthetics. The convergence of the respective projects of the psychophysical study of sound sensation and the aesthetics of music was, however, fleeting. By the beginning of the twentieth century, with the professionalization of such fields as experimental psychology and ethnomusicology and the proliferation of new and different kinds of music, the aesthetic dimension of psychophysics began to disappear.

Meyer makes a valuable statement on aesthetics, criteria for assessing great works of music, compositional practices and theories of the present day, and predictions of the future of Western culture. His postlude, written for the book's twenty-fifth anniversary, looks back at his thoughts on the direction of music in 1967.

Building on the foundation of Lerdahl and Jackendoff's influential *A Generative Theory of Tonal Music*, this volume presents a multidimensional model of diatonic and chromatic spaces that quantifies listeners' intuitions of the relative distances of pitches, chords, and keys from a given tonic. The model is employed to assign prolongational structure, represent paths through the space, and compute patterns of tension and attraction as musical events unfold, thereby providing a partial basis for understanding musical narration, expectation, and expression. Conceived as both a music-theoretic treatise and a contribution to the cognitive science of music, this book will be of interest to music theorists, musicologists, composers, computer musicians, and cognitive psychologists.

*Nineteenth-Century Piano Music* focuses on the core composers of the 19th-century repertoire, beginning with 2 chapters giving a general overview of the repertoire and keyboard technique of the era, and then individual chapters on Beethoven, Schubert, Weber, Mendelssohn, Chopin, Schumann, Brahms, Liszt, and the women composers of the era, particularly focusing on Fanny Hensel and Clara Schumann.

This extremely practical introduction to musical analysis explores the factors that give unity and coherence to musical masterpieces. Having first identified and explained the most important analytical methods, Nicholas Cook examines given compositions from the last two hundred years to show how different analytical procedures suit different types of music. Contains nearly 1000 pages of precise and accessible information on all musical subjects.

*Elements of Sonata Theory* is a comprehensive, richly detailed rethinking of the basic principles of sonata form in the decades around 1800. This foundational study draws upon the joint strengths of current music history and music theory to outline a new, up-to-date paradigm for understanding the compositional choices found in the instrumental works of Haydn, Mozart, Beethoven, and their contemporaries: sonatas, chamber music, symphonies, overtures, and concertos. In so doing, it also lays out the indispensable groundwork for anyone wishing to confront the later adaptations and deformations of these basic structures in the nineteenth and earlier twentieth centuries. Combining insightful music analysis, contemporary genre theory, and provocative hermeneutic turns, the book brims over with original ideas, bold and fresh ways of awakening the potential meanings within a familiar musical repertory. *Sonata Theory* grasps individual compositions—and each of the individual moments within them—as creative dialogues with an implicit conceptual background of flexible, ever-changing historical norms and patterns. These norms may be recreated as constellations "compositional defaults," any of which, however, may be stretched, strained, or overridden altogether for individualized structural or expressive purposes. This book maps out the terrain of that conceptual background, against which what actually happens—or does not happen—in any given piece may be assessed and measured. *The Elements* guides the reader through the standard (and less-than-standard) formatting possibilities within each compositional space in sonata form, while also emphasizing the fundamental role played by processes of large-scale circularity, or "rotation," in the crucially important ordering of musical modules over an entire movement. The book also illuminates new ways of understanding codas and introductions, of confronting the generating processes of minor-mode sonatas, and of grasping the arcs of multimovement cycles as wholes. Its final chapters provide individual studies of alternative sonata types, including "binary" sonata structures, sonata-rondos, and the "first-movement form" of Mozart's concertos.

In recent years neo-Riemannian theory has established itself as the leading approach of our time, and has proven particularly adept at explaining features of chromatic music. *The Oxford Handbook of Neo-Riemannian Music Theories* assembles an international group of leading music theory scholars in an exploration of the music-analytical, theoretical, and historical aspects of this new field.

David Damschroder's new analytical perspective sheds fresh light on Beethoven's harmonic structures.

Reynolds identifies specific borrowings or allusions in a wide range of 19th-century music. He shows the kinds of things composers do with borrowed musical ideas and clarifies what it can mean when one piece of music invokes or refers to another.

Harmonic expectations in Western tonal music are formed throughout an individual's lifetime, created by the encounter of commonly recurring patterns of relationships of chords within music. The recognition and identification of these patterns, particularly when the anticipated patterns are denied, are expressed on a conscious level. Although identified and articulated from the conscious experience, a listener's attention may not be actively engaged in harmonic processing; moreover, the identification of deviations may arise from nonconscious processing of harmonic events. This paper identifies the processes in formulating and expressing harmonic expectation and its subsequent denial, as well as the nonconscious processing which influences this recognition. Additionally, this paper theorizes that expectations on a larger scale, beyond the chordal level, may be generated and fulfilled nonconsciously. This paper concludes with an analysis of Beethoven's Waldstein Sonata, identifying moments of conflict between small-scale denials of expectations within the fulfillment of large-scale processes.

This book is about how music "in a key" is composed. Further, it is about how such music was composed when it was no longer compulsory to do so, starting a few years before the First World War. In an eclectic journey through the history of compositional technique, Daniel Harrison contends that the tonal system did not simply die out with the dawn of twentieth century, but continued to supplement newer techniques as a compelling means of musical organization, even into current times. Well-known art music composers such as Bartok, Hindemith, Prokofiev, and Messiaen are represented alongside composers whose work moves outside the standard boundaries of art music: Leonard Bernstein, Maurice Duruflé, Frank Martin, Xiaoyong Chen. Along the way, the book attends to military bugle calls, a trailer before a movie feature, a recomposition of a famous piece by Arnold Schoenberg, and the music of Neil Diamond, David Shire, and Brian Wilson. A celebration of the awesome variety of musical expressions encompassed in what is called tonal music, *Pieces of Tradition* is a book for composers seeking ideas and effects, music theorists interested in its innovations, and all those who practice the analysis of composition in all its modern and traditional variations.

An annual of international Beethoven studies, *Beethoven Forum* promotes and sustains the high level of scholarship inspired by Beethoven's extraordinary works. Volume 5 presents studies on Beethoven's *Fidelio*, his piano sonatas, and his uses of form and dynamics, along with reviews of Theodor Adorno's *Beethoven's Philosophie der Musik* and of recent writings on the Ninth Symphony. The contributors are Michael C. Tusa, Lee Rothfarb, Miriam Sheer, Michael Spitzer, William Kinderman, Stephen Hinton, and Scott Burnham.

Our image of Beethoven has been transformed by the research generated by a succession of scholars and theorists who blazed new trails from the 1960s onwards. This collection of articles written by leading Beethoven scholars brings together strands of this mainly Anglo-American research over the last fifty years and addresses a range of key issues. The volume places Beethoven scholarship within a historical and contemporary context and considers the future of Beethoven studies.

Arnold Schoenberg's theory of music has been much discussed but his approach to music theory needs a new historical and theoretical assessment in order to provide a clearer understanding of his contributions to music theory and analysis. Norton Dudeque's achievement in this book involves the synthesis of Schoenberg's theoretical ideas from the whole of the composer's working life, including material only published well after his death. The book discusses Schoenberg's rejection of his German music theory heritage and past approaches to music-theory pedagogy, the need for looking at musical structures differently and to avoid aesthetic and stylistic issues. Dudeque provides a unique understanding of the systematization of Schoenberg's tonal-harmonic theory, thematic/motivic-development theory and the links with contemporary and past music theories. The book is complemented by a special section that explores the practical application of the theoretical material already discussed. The focus of this section is on Schoenberg's analytical practice, and the author's response to it. Norton Dudeque therefore provides a comprehensive understanding of Schoenberg's thinking on tonal harmony, motive and form that has hitherto not been attempted.

*Analysis of 18th- and 19th-Century Musical Works in the Classical Tradition* is a textbook for upper-level undergraduate and graduate courses in music analysis. It outlines a process of analyzing works in the Classical tradition by uncovering the construction of a piece of music—the formal, harmonic, rhythmic, and voice-leading organizations—as well as its unique features. It develops an in-depth approach that is applied to works by composers including Haydn, Mozart, Beethoven, Schubert, Schumann, and Brahms. The book begins with foundational chapters in music theory, starting with basic diatonic harmony and progressing rapidly to more advanced topics, such as phrase design, phrase expansion, and chromatic harmony. The second part contains analyses of complete musical works and movements. The text features over 150 musical examples, including numerous complete annotated scores. Suggested assignments at the end of each chapter guide students in their own musical analysis.

To the growing list of Pendragon Press publications devoted to the work of Heinrich Schenker, we wish to announce the addition of this much-needed bibliography. The author, a student of Allen Forte, has created a work useful to a wide range of researchers music theorists, musicologists, music librarians and teachers. The Guide is the largest Schenkerian reference work ever published. At nearly 600 pages, it contains 3600 entries (2200 principal, 1400 secondary) representing the work of 1475 authors. Fifteen broad groupings encompass seventy topical headings, many of which are divided and subdivided again, resulting in a total of 271 headings under which entries are collected.

*Sonata no. 5 in c minor, opus 10 no. 1, URTEXT with Fingerings*. For advanced students and professional pianists This volume offers a cross section of current directions in the broad field of music analysis as practiced by a transnational community of scholars. Music analysis is presented as a vibrant multi-faceted field of research which constantly re-examines its

own postulates, while also establishing dialogues with a large number of other disciplines.

This book is Schoenberg's last completed theoretical work and represents his final thoughts on the subject of classical and romantic harmony. The earlier chapters recapitulate in condensed form the principles laid down in his 'Theory of Harmony'; the later chapters break entirely new ground, for they analyze the system of key relationships within the structure of whole movements and affirm the principle of 'monotonicity,' showing how all modulations within a movement are merely deviations from, and not negations of, its main tonality.

The fundamental structure of the universe, from the particle and the atom to the biological evolution of organisms such as the eye and ear, exist because of the harmonic relationships of waves. The most significant characteristic of the human species to evolve was advanced communication abilities resulting from the perception of harmonics. This perception led directly to the unique biological morphology of the human vocal apparatus and the correlative neurocranial expansion of the auditory, memory, and language regions of the brain. New research is conclusively demonstrating that the modern human capacity for advanced language was in tact by approximately 200,000 B.C.E. and that the earliest advanced technologies to be created were harmonic sound and language devices. To date, there has never been a thorough examining or explanation of why the harmonic component emerged, nor has a model been discovered or developed to define and elucidate the harmonic structure of language which is the unifying mechanism of all fields. Within this treatise, a new harmonic model of Euclidean space is presented which elucidates the fundamental harmonic identities of numbers and their relationships within a naturally occurring resonant field system. This model is then applied to various harmonic phenomena in contrasting wave based fields to demonstrate unified harmonic structure and function. As a *pièce de résistance*, it is shown that the harmonic mechanisms which create the triangularity of vowel formant perception and the resultant Euclidean harmonic circularity of vowel space, is synonymous to the ocular cone trichromacy forming color perception and the resultant Euclidean harmonic circularity of color space. Due to the underlying harmonic frequency substrate of both these phenomena, an expanded harmonic correlation is demonstrated with wide ranging repercussions. One such consequence being the ability to linguistically transfer the categorical perception of harmonic structure from one field to another providing a plethora of new harmonic investigative and analytical tools for every wave based field. The core of the information presented herein is demonstrated through the medium of sound and the organizing harmonic elements of music language. Accordingly, the integral components of language formant vowels and consonants, color trichromacy, and dual harmonic frequency/wavelength systems are unified in an applied model which has been tested for the past decade showing fundamental harmonic cohesion and discourse between the underlying phenomena. Though this treatise is a scholarly presentation, it is designed to be accessible to a wide and diverse educated audience due to the sheer scope of facts presented from multiple niche disciplines to which no single scholar could be expected to possess an expert command. It is thus a comprehensive panorama of harmonic structure providing a never-before-seen perspective harmonic correlation between seemingly unrelated fields. As much as this treatise is an extensive exposition of the structure of harmonics, it is also an engaging expose of harmonic evolution within the biology of multiple species and the systems of color, language, and music. It has therefore been defined as a Rosetta Stone which not only provides for the decoding of fundamental evolutionary harmonic correlations between wide ranging organisms, but also provides new tools to investigate, analyze, and evolve the next frontier of harmonic order.

Drawing on the work of leading experts from around the globe, Musicology and Sister Disciplines provides the definitive, authoritative statement on the scope of musicology today and its relationship to other fields of academic endeavour, including philosophy and aesthetics, literary studies, art history, mathematics, computer science, historiography, and sociology. These groundbreaking papers represent the outcome of a major musicological conference in 1997, and include contributions from the philosopher Bernard Williams and world-famous mathematician Roger Penrose.

*A History of the Symphony: The Grand Genre* identifies the underlying cultural factors that have shaped the symphony over the past three hundred years, presenting a unified view of the entire history of the genre. The text goes beyond discussions of individual composers and the stylistic evolution of the genre to address what constitutes a symphony within each historical period, describing how such works fit into the lives of composers and audiences of the time, recognizing that they do not exist in a vacuum but rather as the products of numerous external forces spurring their creation. In three parts, the text proceeds chronologically, drawing connections between musical examples across regions and eras: The Classical Symphony The Romantic Symphony The Symphony in the Modern Era Within this broad chronology—from the earliest Italian symphonies of the 18th century to the most experimental works of the 20th century—discussion of the development of the genre often breaks down along national lines that outline divergent but parallel paths of stylistic growth. In consideration of what is and is not a symphony, musical developments in other genres are presented as they relate to the symphony, genres such as the serenade, the tone poem, and the concert overture. Suitable for a one-semester course as well as a full-year syllabus, and with illustrative musical examples throughout, *A History of the Symphony* places composers and works in sociological and musical contexts while confronting the fundamental question: What is a symphony?

For music analysts and performers alike, Beethoven's *Tempest* sonata (1802) represents one of the most challenging pieces of the classical and early romantic piano repertoire. This book is a collection of eleven essays, each dealing with this sonata from a different analytical perspective and investigating the possible connections between music analysis and the practice of performance. Under the editorship of Pieter Berge, Jeroen D'hoë and William E. Caplin, the book presents essays by Scott Burnham (hermeneutics), Poundie Burstein (Schenkerian approach), Kenneth Hamilton (history of performance), Robert Hatten (semiotics), James Hepokoski (Sonata Theory), William Kinderman (source studies), William Rothstein (tempo, rhythm, and meter), Douglas Seaton (narratology), Steven Vande Moortele (20th-century *Formenlehre*) and the editors themselves (motivic analysis and form-functional approach respectively).

This is a reference source to the analytical literature on music from the Middle Ages to the 20th century, designed for music scholars, students, and concert-goers interested in a technical explanation of a favourite composition.

Musicology, having been transmitted as a compilation of disparate events and disciplines, has long necessitated a 'magic bullet', a 'unified field theory' so to speak, that can interpret the steady metamorphosis of Western art music from late medieval modality to twentieth-century atonality within a single theoretical construct. Without that magic bullet, discussions of this kind are increasingly complicated and, to make matters worse, the validity of any transformational models and ideas of the natural evolution of styles is questioned and even frowned upon today as epitomizing a grotesque teleological bigotry. Going against current thinking, Henry Burnett and Roy Nitzberg claim that the

teleological approach to observing stylistic change is still valid when considered from the purely compositional perspective. The authors challenge the traditional understanding of development, and advance a new theory of eleven-pitch tonality as it relates to the corpus of Western composition. The book plots the evolution of tonality and its bearing on style and the compositional process itself. The theory is not based on the diatonic aspect of the various tonal systems exploited by composers; rather, the theory is chromatically based - the chromatically inflected octave being the source not only of a highly ingenious developmental dialectic, but also encompassing the moment-to-moment progression of the musical narrative itself. Even the most profound teachings of Schenker, and the often startlingly original and worthwhile speculations of Riemann, Tovey, Dahlhaus and others, still provide no theory of development and so are ultimately unable to unite the various tendrils of the compositional organism into a unified whole. Burnett and Nitzberg move beyond existing theory and analysis to base their theory from the standpoint of chromatic 'pitch fields'. These fields are the specific chromatic pitch choices that a composer uses to inform and design a complete composition, utilizing

Offering comprehensive coverage of classical music, this guide surveys more than eleven thousand albums and presents biographies of five hundred composers and eight hundred performers, as well as twenty-three essays on forms, eras, and genres of classical music. Original. Carl Schachter is the world's leading practitioner of Schenkerian theory and analysis. His articles and books have been broadly influential, and are seen by many as models of musical insight and lucid prose. Yet, perhaps his greatest impact has been felt in the classroom. At the Mannes College of Music, the Juilliard School of Music, Queens College and the Graduate Center of the City University of New York, and at special pedagogical events around the world, he has taught generations of musical performers, composers, historians, and theorists over the course of his long career. In Fall 2012, Schachter taught a doctoral seminar at the CUNY Graduate Center in which he talked about the music and the musical issues that have concerned him most deeply; the course was in essence a summation of his extensive and renowned teaching. In *The Art of Tonal Analysis*, music theorist Joseph Straus presents edited transcripts of those lectures. Accompanied by abundant music examples, including analytical examples transcribed from the classroom blackboard, Straus's own visualizations of material that Schachter presented aurally at the piano, and Schachter's own extended Schenkerian graphs and sketches, this book offers a vivid account of Schachter's masterful pedagogy and his deep insight into the central works of the tonal canon. In making the lectures of one of the world's most extraordinary musicians and musical thinkers available to a wide audience, *The Art of Tonal Analysis* is an invaluable resource for students and scholars of music.

*The Cambridge History of Western Music Theory* is the first comprehensive history of Western music theory to be published in the English language. A collaborative project by leading music theorists and historians, the volume traces the rich panorama of music-theoretical thought from the Ancient Greeks to the present day. Recognizing the variety and complexity of music theory as an historical subject, the volume has been organized within a flexible framework. Some chapters are defined chronologically within a restricted historical domain, whilst others are defined conceptually and span longer historical periods. Together the thirty-one chapters present a synthetic overview of the fascinating and complex subject that is historical music theory. Richly enhanced with illustrations, graphics, examples and cross-citations as well as being thoroughly indexed and supplemented by comprehensive bibliographies of the most important primary and secondary literature, this book will be an invaluable resource for students and scholars alike.

The question of whether music has meaning has been the subject of sustained debate ever since music became a subject of academic inquiry. Is music a language? Does it communicate specific ideas and emotions? What does music mean, and how does this meaning occur? Kofi Agawu's *Music as Discourse* has become a standard and definitive work in musical semiotics. Working at the nexus of musicology, ethnomusicology, and music philosophy and aesthetics, Agawu presents a synthetic and innovative approach to musical meaning which argues deftly for the thinking of music as a discourse in itself--composed not only of sequences of gestures, phrases, or progressions, but rather also of the very philosophical and linguistic props that enable the analytical formulations made about music as an object of study. The book provides extensive demonstration of the pertinence of a semiological approach to understanding the fully-freighted language of romantic music, stresses the importance of a generative approach to tonal understanding, and provides further insight into the analogy between music and language. *Music as Discourse* is an essential read for all who are interested in the theory, analysis and semiotics of music of the romantic period.

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