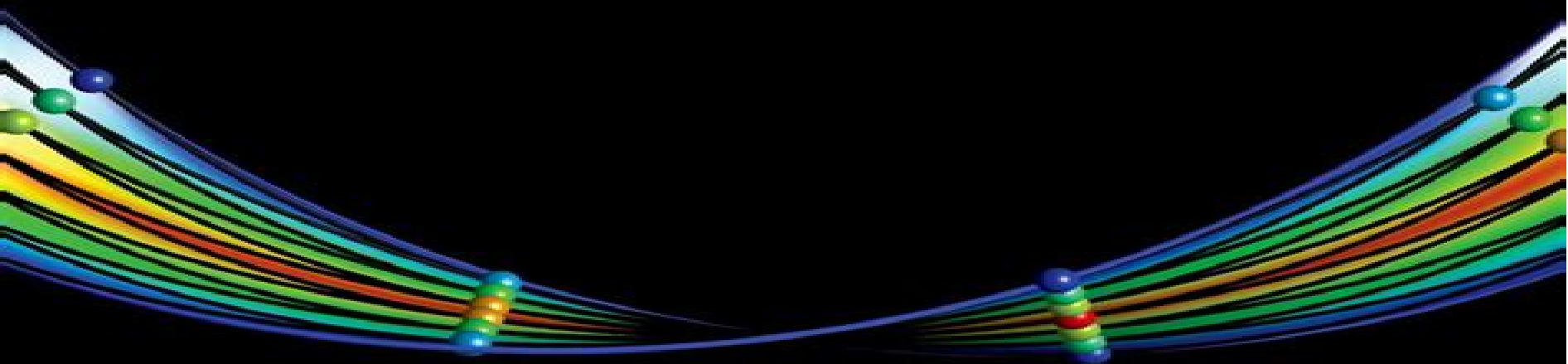


A GEOMETRY OF MUSIC

Harmony and Counterpoint in the
Extended Common Practice

DMITRI TYMOCZKO



Dmitri Tymoczko A Geometry Of Music Harmony And

John Michels



Dmitri Tymoczko A Geometry Of Music Harmony And:

A Geometry of Music Dmitri Tymoczko, 2010-12-03 How is the Beatles Help similar to Stravinsky's Dance of the Adolescents How does Radiohead's Just relate to the improvisations of Bill Evans And how do Chopin's works exploit the non Euclidean geometry of musical chords In this groundbreaking work author Dmitri Tymoczko describes a new framework for thinking about music that emphasizes the commonalities among styles from medieval polyphony to contemporary rock Tymoczko identifies five basic musical features that jointly contribute to the sense of tonality and shows how these features recur throughout the history of Western music In the process he sheds new light on an age old question what makes music sound good A Geometry of Music provides an accessible introduction to Tymoczko's revolutionary geometrical approach to music theory The book shows how to construct simple diagrams representing relationships among familiar chords and scales giving readers the tools to translate between the musical and visual realms and revealing surprising degrees of structure in otherwise hard to understand pieces Tymoczko uses this theoretical foundation to retell the history of Western music from the eleventh century to the present day Arguing that traditional histories focus too narrowly on the common practice period from 1680-1850 he proposes instead that Western music comprises an extended common practice stretching from the late middle ages to the present He discusses a host of familiar pieces by a wide range of composers from Bach to the Beatles Mozart to Miles Davis and many in between A Geometry of Music is accessible to a range of readers from undergraduate music majors to scientists and mathematicians with an interest in music Defining its terms along the way it presupposes no special mathematical background and only a basic familiarity with Western music theory The book also contains exercises designed to reinforce and extend readers understanding along with a series of appendices that explore the technical details of this exciting new theory

A Geometry of Music: Harmony and Counterpoint in the Extended Common Practice Dmitri Tymoczko, 2011-02-21 How is the Beatles Help similar to Stravinsky's Dance of the Adolescents How does Radiohead's Just relate to the improvisations of Bill Evans And how do Chopin's works exploit the non Euclidean geometry of musical chords In this groundbreaking work author Dmitri Tymoczko describes a new framework for thinking about music that emphasizes the commonalities among styles from medieval polyphony to contemporary rock Tymoczko identifies five basic musical features that jointly contribute to the sense of tonality and shows how these features recur throughout the history of Western music In the process he sheds new light on an age old question what makes music sound good A Geometry of Music provides an accessible introduction to Tymoczko's revolutionary geometrical approach to music theory The book shows how to construct simple diagrams representing relationships among familiar chords and scales giving readers the tools to translate between the musical and visual realms and revealing surprising degrees of structure in otherwise hard to understand pieces Tymoczko uses this theoretical foundation to retell the history of Western music from the eleventh century to the present day Arguing that traditional histories focus too narrowly on the common practice period from 1680-1850 he proposes instead that

Western music comprises an extended common practice stretching from the late middle ages to the present He discusses a host of familiar pieces by a wide range of composers from Bach to the Beatles Mozart to Miles Davis and many in between A Geometry of Music is accessible to a range of readers from undergraduate music majors to scientists and mathematicians with an interest in music Defining its terms along the way it presupposes no special mathematical background and only a basic familiarity with Western music theory The book also contains exercises designed to reinforce and extend readers understanding along with a series of appendices that explore the technical details of this exciting new theory

Schoenberg's Atonal Music Jack Boss, 2019-07-04 Portrays Schoenberg's atonal music as successions of motives and pitch class sets that flesh out musical idea and basic image frameworks *The Oxford Handbook of Western Music and Philosophy* Tomás McAuley, Nanette Nielsen, Jerrold Levinson, Ariana Phillips-Hutton, 2021 The Oxford Handbook of Western Music and Philosophy celebrates the ways in which musicians have historically called upon philosophy as a source of inspiration and encouragement and scholars of music through the ages have turned to philosophy for insight into music and into the worlds that sustain it Mathemusical Conversations: Mathematics And Computation In Music Performance And Composition Elaine Chew, Gerard Assayag, Jordan B L Smith, 2016-07-21 Mathemusical Conversations celebrates the understanding of music through mathematics and the appreciation of mathematics through music This volume is a compilation of the invited talks given at the Mathemusical Conversations workshop that took place in Singapore from 13-15 February 2015 organized by Elaine Chew in partnership with Gerard Assayag for the scientific program and with Bernard Lanskey for the artistic program The contributors are world experts and leading scholars writing on the intersection of music and mathematics They also focus on performance and composition two topics which are foundational both to the understanding of human creativity and to the creation of tomorrow's music technologies This book is essential reading for researchers in both music and mathematics It will also appeal more broadly to scholars students musicians and anyone interested in new perspectives on the intimate relationship between these two universal human activities *Exploring Musical Spaces* Julian Hook, 2022 Exploring Musical Spaces is a comprehensive synthesis of mathematical techniques in music theory written with the aim of making these techniques accessible to music scholars without extensive prior training in mathematics The book adopts a visual orientation introducing from the outset a number of simple geometric models the first examples of the musical spaces of the book's title depicting relationships among musical entities of various kinds such as notes chords scales or rhythmic values These spaces take many forms and become a unifying thread in initiating readers into several areas of active recent scholarship including transformation theory neo Riemannian theory geometric music theory diatonic theory and scale theory Concepts and techniques from mathematical set theory graph theory group theory geometry and topology are introduced as needed to address musical questions Musical examples ranging from Bach to the late twentieth century keep the underlying musical motivations close at hand The book includes hundreds of figures to aid in

visualizing the structure of the spaces as well as exercises offering readers hands on practice with a diverse assortment of concepts and techniques

The Quilting Points of Musical Modernism J. P. E. Harper-Scott, 2012-08-16 Modernism is both a contested aesthetic category and a powerful political statement Modernist music was condemned as degenerate by the Nazis and forcibly replaced by socialist realism under the Soviets Sympathetic philosophers and critics have interpreted it as a vital intellectual defence against totalitarianism yet some American critics consider it elitist undemocratic and even unnatural Drawing extensively on the philosophy of Heidegger and Badiou The Quilting Points of Musical Modernism proposes a new dialectical theory of faithful reactive and obscure subjective responses to musical modernism which embraces all the music of Western modernity This systematic definition of musical modernism introduces readers to theory by Badiou i ek and Agamben Basing his analyses on the music of William Walton Harper Scott explores connections between the revolutionary politics of the nineteenth and twentieth centuries and responses to the event of modernism in order to challenge accepted narratives of music history in the twentieth century

Tonality Dmitri Tymoczko, 2023 Wide ranging in scope and with almost 700 musical examples from the Middle Ages to the present day Tonality An Owner s Manual weaves philosophy mathematics statistics and computational analysis into a new and truly twenty first century theory of music It proposes a sweeping reformulation of the basic concepts of Western music theory revealing simple structures underlying a wide range of practices from the Renaissance to contemporary pop Each of its central chapters re examines a basic music theoretical concept such as voice leading repetition nonharmonic tones the origins of tonal harmony the grammar of tonal harmony modulation and melody

Science John Michels, 2006

Música, ciencia y pensamiento en España e Iberoamérica durante el siglo XX Leticia Sánchez de Andrés, Adela Presas, 2013 El presente libro es fruto del trabajo interdisciplinar de un grupo de investigadores y ofrece un análisis de la creación y el hecho musical y sonoro contemporáneo en el contexto hispanohablante observado como un proceso cultural íntimamente vinculado con las emergentes y cambiantes corrientes de pensamiento estético los movimientos sociopolíticos e identitarios y los avances científicos y tecnológicos Est dividido en tres bloques de contenidos complementarios entre sí Discursos estéticos Nuevos aspectos de la creación musical contemporánea e Identidades ideológica y cultura Se propone así el desarrollo de un análisis musicalógico integral de la creación española e iberoamericana del siglo XX desde dos perspectivas complementarias la de las corrientes estéticas sociológicas e ideológicas y la de la ciencia y la tecnología observadas como hecho cultural

ISMIR 2007 Simon Dixon, David Bainbridge, Rainer Typke, 2007

Seed, 2008

Geometry and Topology in Music Moreno Andreatta, Emmanuel Amiot, Jason Yust, 2024-11-01 This book introduces path breaking applications of concepts from mathematical topology to music theory topics including harmony chord progressions rhythm and music classification Contributions address topics of voice leading Tonnetz maps of notes and chords and automatic music classification Focusing on some geometrical and topological aspects of the representation and formalisation of musical structures and processes the book covers topological

features of voice leading geometries in the most recent advances in this mathematical approach to representing how chords are connected through the motion of voices leading to analytically useful simplified models of high dimensional spaces It generalizes the idea of a Tonnetz a geometrical map of tones or chords and shows how topological aspects of these maps can correspond to many concepts from music theory The resulting framework embeds the chord maps of neo Riemannian theory in continuous spaces that relate chords of different sizes and includes extensions of this approach to rhythm theory It further introduces an application of topology to automatic music classification drawing upon both static topological representations and time series evolution showing how static and dynamic features of music interact as features of musical style This volume will be a key resource for academics researchers and advanced students of music music analyses music composition mathematical music theory computational musicology and music informatics It was originally published as a special issue of the Journal of Mathematics and Music

Between Harmony and Geometry Jeffrey Stewart Ritter, 2001

The Geometry of Musical Rhythm Godfried T. Toussaint, 2013-01-11 The Geometry of Musical Rhythm What Makes a Good Rhythm Good is the first book to provide a systematic and accessible computational geometric analysis of the musical rhythms of the world It explains how the study of the mathematical properties of musical rhythm generates common mathematical problems that arise in a variety of seemingly disparate fields For the music community the book also introduces the distance approach to phylogenetic analysis and illustrates its application to the study of musical rhythm Accessible to both academics and musicians the text requires a minimal set of prerequisites Emphasizing a visual geometric treatment of musical rhythm and its underlying structures the author an eminent computer scientist and music theory researcher presents new symbolic geometric approaches and often compares them to existing methods He shows how distance geometry and phylogenetic analysis can be used in comparative musicology ethnomusicology and evolutionary musicology research The book also strengthens the bridge between these disciplines and mathematical music theory Many concepts are illustrated with examples using a group of six distinguished rhythms that feature prominently in world music including the clave son Exploring the mathematical properties of good rhythms this book offers an original computational geometric approach for analyzing musical rhythm and its underlying structures With numerous figures to complement the explanations it is suitable for a wide audience from musicians composers and electronic music programmers to music theorists and psychologists to computer scientists and mathematicians It can also be used in an undergraduate course on music technology music and computers or music and mathematics

The Topos of Music I: Theory Guerino Mazzola, 2018-03-28 This is the first volume of the second edition of the now classic book The Topos of Music The author explains the theory s conceptual framework of denotators and forms the classification of local and global musical objects the mathematical models of harmony and counterpoint and topologies for rhythm and motives

Guide to the Practical Study of Harmony Peter Ilyitch Tchaikovsky, 2013-07-24 Written during Tchaikovsky s years as professor at the Moscow Conservatory

this clear and thorough introduction to the study of harmony features numerous examples and exercises

The Topos of Music Guerino Mazzola, 2002-09-23 The Topos of Music is the upgraded and vastly deepened English extension of the seminal German *Geometrie der Töne*. It reflects the dramatic progress of mathematical music theory and its operationalization by information technology since the publication of *Geometrie der Töne* in 1990. The conceptual basis has been vastly generalized to topos theoretic foundations including a corresponding thoroughly geometric musical logic. The theoretical models and results now include topologies for rhythm, melody and harmony as well as a classification theory of musical objects that comprises the topos theoretic concept framework. Classification also implies techniques of algebraic moduli theory. The classical models of modulation and counterpoint have been extended to exotic scales and counterpoint interval dichotomies. The probably most exciting new field of research deals with musical performance and its implementation on advanced object oriented software environments. This subject not only uses extensively the existing mathematical music theory, it also opens the language to differential equations and tools of differential geometry such as Lie derivatives. Mathematical performance theory is the key to inverse performance theory, an advanced new research field which deals with the calculation of varieties of parameters which give rise to a determined performance. This field uses techniques of algebraic geometry and statistics approaches which have already produced significant results in the understanding of highest ranked human performances. The book's formal language and models are currently being used by leading researchers in Europe and Northern America and have become a foundation of music software design. This is also testified by the book's nineteen collaborators and the included CD-ROM containing software and music examples.

Logier's System of the Science of Music, Harmony, and Practical Composition Johann Bernhard Logier, 1843

RHETORIC OF MUSIC MORTIMER. WILSON, 2018

Dmitri Tymoczko A Geometry Of Music Harmony And Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Dmitri Tymoczko A Geometry Of Music Harmony And**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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