



Tuning, Timbre, Spectrum, Scale

Second Edition

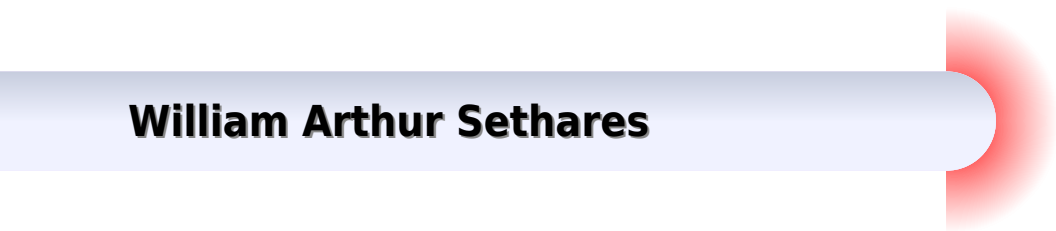
William A. Sethares



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Tuning Timbre Spectrum Scale Tuning Timbre Spectrum Scale

William Arthur Sethares



Tuning Timbre Spectrum Scale Tuning Timbre Spectrum Scale:

Tuning, Timbre, Spectrum, Scale William A. Sethares, 2005-01-03 Table 2 Each note consists of three partials If the sequence is played ascending then the first virtual pitch tends to be perceived whereas if played descending the second lower virtual pitch tends to be heard Only one virtual pitch is audible at a time This can be heard in sound examples S 6 and S 7

Note	First	Second	Third	Virtual Pitch	Virtual Pitch	partial	partial	partial	ascending	descending
1	600	800	1000	200	0	158	9	2		
620	820	1020	205	2	163	0	3	640	840	1040
210	4	167	1	4	660	860	1060	215	6	171
2	5	680	880	1080	220	9	175	3	6	700
900	1100	226	1	179	4	7	720	920	1120	231
3	183	6	8	740	940	1140	236	6	187	7
9	760	960	1160	241	8	191	8	10	780	980
1180	247	0	195	9	11	800	1000	1200	252	2
200	0									

Pitch and virtual pitch are properties of a single sound For instance a chord played by the violin viola and cello of a string quartet is not usually thought of as having a pitch rather pitch is associated with each instrumental tone separately Thus determining the pitch or pitches of a complex sound source requires that it first be partitioned into separate perceptual entities Only when a cluster of partials fuse into a single sound can it be assigned a pitch When listening analytically for instance there may be more notes present than in the same sound when listening holistically

Tuning, Timbre, Spectrum, Scale William A. Sethares, 2013-06-05

Tuning Timbre Spectrum Scale focuses on perceptions of consonance and dissonance and how these are dependent on timbre This also relates to musical scale certain timbres sound more consonant in some scales than others Sensory consonance and the ability to measure it have important implications for the design of audio devices and for musical theory and analysis Applications include methods of adapting sounds for arbitrary scales ways to specify scales for nonharmonic sounds and techniques of sound manipulation based on maximizing or minimizing consonance Special consideration is given here to a new method of adaptive tuning that can automatically adjust the tuning of a piece based its timbral character so as to minimize dissonance Audio examples illustrating the ideas presented are provided on an accompanying CD This unique analysis of sound and scale will be of interest to physicists and engineers working in acoustics as well as to musicians and psychologists

Interpreting the Synthesizer Nick Wilson, 2020-09-03 This volume examines the synthesizer's significance for music and culture with a range of contributors providing historical musicological practical and theoretical perspectives The synthesizer as an instrument has evolved rapidly over the last 50 years conveying different meanings in musical culture at various times in its history For example post punk and new wave acts used synths to signify their embrace of futurism and modernity Earlier psychedelic bands used the instrument to sonically represent mind expansion while prog acts signposted their lineage to the classical avant garde Techno artists used synths to escape the strictures of acoustic music in parallel with rave culture's desire for escapism from the mundanity of daily existence It is now seemingly ubiquitous in modern pop music production

Rhythm and Transforms William Arthur Sethares, 2007-08-06 People naturally identify the rhythm of music as they tap their feet and sway in time with the beat Underlying such motions is an act of cognition that

is not easily reproduced in a computer program or automated by machine Rhythm and Transforms asks and answers the question How can we build a device that can tap its foot along with the music The result is a tool for detecting and measuring the temporal aspects of a musical performance the periodicities the regularities and irregularities the beat the rhythm The impact of such a rhythm meter on music theory and on the design of sound processing electronics is described It allows discussion of the relationship between cognitive processing of temporal information and mathematical techniques used to describe and understand regularities in data This book will interest engineers and others interested in the design of audio devices such as musical synthesizers special effects devices drum machines and electronic keyboards It will be useful to musicians and composers who exploit computer based tools arrangers musicologists and others interested in musical analysis and those interested in the way the ear works and how this influences the types of sound patterns we like to listen to

Handbook of Signal Processing in Acoustics David Havelock,2008 The Oxford Handbook of Timbre Emily I.

Dolan,Alexander Rehding,2021 With essays covering an array of topics including ancient Homeric texts contemporary sound installations violin mutes birdsong and cochlear implants this volume reveals the richness of what it means to think and talk about timbre and the materiality of the experience of sound Scales and Modes Around the World Rechberger,

Herman,2018-02-01 Scales and modes are the building blocks of music This is true for all the many music cultures of the world This compendium covers the different scales as they are used in the Western tradition including ie the Greek Byzantine Octamodes Takemitsu modes Heptamodes Octamodes as well as modes in religious music and jazz and synthetic scales created by some the most famous composers of the western music Non western scales cover Arabic Persian Turkish Azerbaijani Indian Ragas Bali Thai Laos Burma and the scales of some ethnic minorities in South East Asia The wealth of information in this book is organized geographically introducing and explaining over 500 different scales and modes The use of the scales the interval relations and structures are explained in illustrations This compendium is an invaluable resource to everyone interested in the theory of the world s music cultures be it an individual musician composer arranger musicologist theorist or jazz musician finding inspiration for the solos See the sample pages for more information **The Bohlen-Pierce**

Clarinet Nora-Louise Müller,2020-09-28 Abstract Repertoire in Bohlen Pierce BP tuning has grown significantly since the debut of BP clarinets in 2008 Literature specifically dedicated to the BP clarinet on the other hand is still rare Practice led research conducted by the author provides useful materials about the BP soprano and tenor clarinets such as contemporary playing techniques or acoustical conditions The current state of repertoire is shown exemplary analyses of compositions featuring one or more BP clarinets are given A new BP specific notation is introduced it has been developed from a practical point of view and has gained great acceptance among musicians performing in BP Beside using BP as the only tuning system in compositions it is also possible to combine BP with other scales to achieve effects of extended tonalities or rich microtonal structures Multiphonics as a very popular phenomenon in contemporary woodwind music are highlighted providing fingering

charts and notational suggestions for both BP soprano and BP tenor clarinets The theoretical idea of a BP third tone scale 39div3 is transferred into practice by providing fingering charts and practical advice to performers and composers I hope that this thesis can give inspiration and advice to those motivated to compose for and perform on BP clarinets and that BP clarinets will gain the popularity they deserve in contemporary music performance The BP clarinet and its growing repertoire may widen the range of expression of dedicated clarinet players

The Origins of Language Revisited Nobuo

Masataka,2020-06-11 This book summarizes the latest research on the origins of language with a focus on the process of evolution and differentiation of language It provides an update on the earlier successful book *The Origins of Language* edited by Nobuo Masataka and published in 2008 with new content on emerging topics Drawing on the empirical evidence in each respective chapter the editor presents a coherent account of how language evolved how music differentiated from language and how humans finally became neurodivergent as a species Chapters on nonhuman primate communication reveal that the evolution of language required the neural rewiring of circuits that controlled vocalization Language contributed not only to the differentiation of our conceptual ability but also to the differentiation of psychic functions of concepts emotion and behavior It is noteworthy that a rudimentary form of syntax regularity of call sequences has emerged in nonhuman primates The following chapters explain how music differentiated from language whereas the pre linguistic system or the prosodic protolanguage in nonhuman primates provided a precursor for both language and music Readers will gain a new understanding of music as a rudimentary form of language that has been discarded in the course of evolution and its role in restoring the primordial synthesis in the human psyche The discussion leads to an inspiring insight into autism and neurodiversity in humans This thought provoking and carefully presented book will appeal to a wide range of readers in linguistics psychology phonology biology anthropology and music

The Digital Musician Andrew Hugill,2018-09-03

The Digital Musician Third Edition is an introductory textbook for creative music technology and electronic music courses Written to be accessible to students from any musical background this book examines cultural awareness artistic identity and musical skills offering a system agnostic survey of digital music creation Each chapter presents creative projects that reinforce concepts as well as case studies of real musicians and discussion questions for further reflection This third edition has been updated to reflect developments in an ever changing musical landscape most notably the proliferation of mobile technologies covering topics such as collaborative composition virtual reality data sonification and digital scores while encouraging readers to adapt to continuous technological changes With an emphasis on discovering one's musical voice and identity and tools and ideas that are relevant in any musical situation The Digital Musician is sure to be an invaluable student resource for years to come Features of the third edition Additional case studies with new interviews exclusive to the third edition Revised chapter structure with an emphasis on student focus and understanding featuring additional and expanded chapters Reinstatement of selected and updated first edition topics including mixing mastering and microphones Companion website

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Tuning Timbre Spectrum Scale Tuning Timbre Spectrum Scale Introduction

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