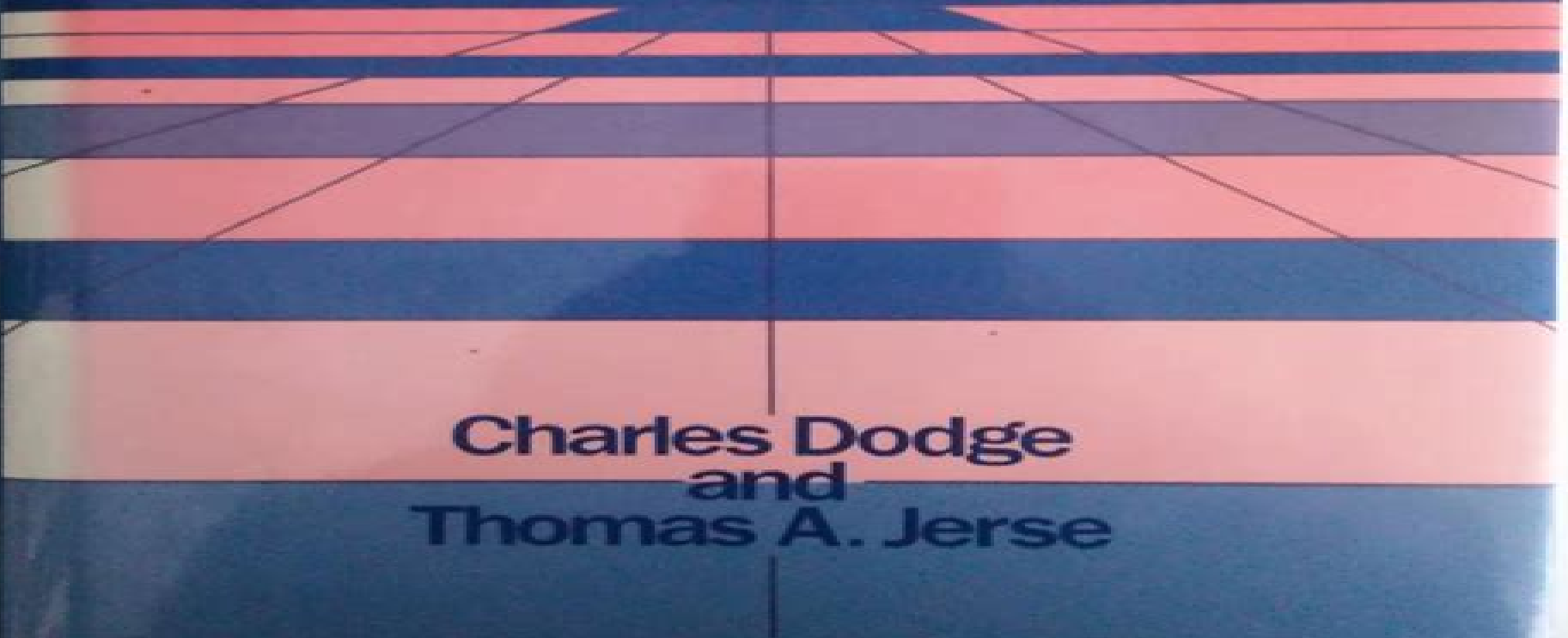


# **COMPUTER MUSIC**

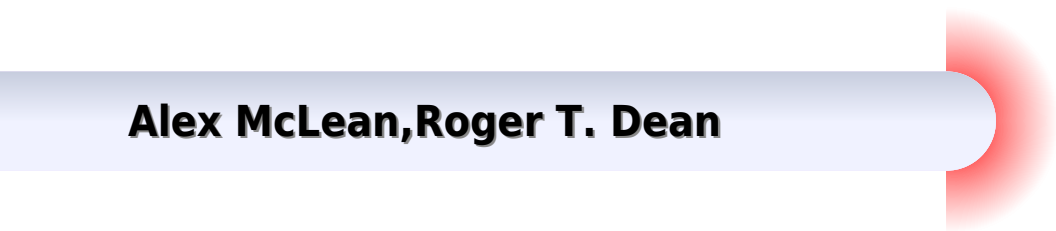
**Synthesis,  
Composition, and  
Performance**

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**Charles Dodge  
and  
Thomas A. Jerse**

# Computer Music Synthesis Composition And Performance

**Alex McLean, Roger T. Dean**



## **Computer Music Synthesis Composition And Performance:**

Computer Music Charles Dodge, Thomas A. Jerse, 1985 This text reflects the current state of computer technology and music composition The authors offer clear practical overviews of program languages real time synthesizers digital filtering artificial intelligence and much more      The Computer Music Tutorial, second edition Curtis Roads, 2023-06-06 Expanded updated and fully revised the definitive introduction to electronic music is ready for new generations of students Essential and state of the art The Computer Music Tutorial second edition is a singular text that introduces computer and electronic music explains its motivations and puts topics into context Curtis Roads s step by step presentation orients musicians engineers scientists and anyone else new to computer and electronic music The new edition continues to be the definitive tutorial on all aspects of computer music including digital audio signal processing musical input devices performance software editing systems algorithmic composition MIDI and psychoacoustics but the second edition also reflects the enormous growth of the field since the book s original publication in 1996 New chapters cover up to date topics like virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum editors and instrument and patch editors Exhaustively referenced and cross referenced the second edition adds hundreds of new figures and references to the original charts diagrams screen images and photographs in order to explain basic concepts and terms Features New chapters virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum editors instrument and patch editors and an appendix on machine learning Two thousand references support the book s descriptions and point readers to further study Mathematical notation and program code examples used only when necessary Twenty five years of classroom seminar and workshop use inform the pace and level of the material      **Introduction to Computer Music** Nick Collins, 2010-02-01 An up to date core undergraduate text Introduction to Computer Music deals with both the practical use of technology in music and the key principles underpinning the discipline It targets both musicians exploring computers and technologists engaging with music and does so in the confidence that both groups can learn tremendously from the cross disciplinary encounter It is designed to approach computer music as its own subject and strongly bridge the arts to computing divide benefiting and reconciling both musicians and computer scientists You will need little or no prior experience of computer programming itself and may not have an extensive background in mathematics or music but this highly engaging textbook will help you master many disciplines at once with a focus on both fascinating theories and exciting practical applications      **Inside Computer Music** Michael Clarke, Frédéric Dufeu, Peter Manning, 2020 Inside Computer Music is an investigation of how new technological developments have influenced the creative possibilities of composers of computer music in the last 50 years This book combines detailed research into the development of computer music techniques with nine case studies that analyze key works in the musical and technical development of computer music The book s companion website offers demonstration

videos of the techniques used and downloadable software There readers can view interviews and test emulations of the software used by the composers for themselves The software also presents musical analyses of each of the nine case studies to enable readers to engage with the musical structure aurally and interactively

**The Oxford Handbook of Algorithmic Music** R. T. Dean, 2018 Featuring chapters by emerging and established scholars as well as by leading practitioners in the field this Handbook both describes the state of algorithmic composition and also set the agenda for critical research on and analysis of algorithmic music

**Analytical Methods of Electroacoustic Music** Mary Simoni, 2005-12-09 Containing extensive artwork serving as demonstration as well as downloadable resources with sound and video clips this collection of essays on electroacoustic music explores the creative possibilities to be found in various forms of musical analysis Taking pitch duration intensity and timbre as the four basic elements of music the authors discuss electroacoustic works and examine the applications of neumes contemporary staff notation sound orchestra and score files time domain representations spectrograms Taking into consideration both the positive aspects preservation of the abstract and negative aspects creative limitation of these analytical methods the authors have created a useful resource for students of electroacoustic music

*The ^AOxford Handbook of Algorithmic Music* Alex McLean, Roger T. Dean, 2018-01-18 Featuring chapters by emerging and established scholars as well as by leading practitioners in the field this Handbook both describes the state of algorithmic composition and also set the agenda for critical research on and analysis of algorithmic music

**The SuperCollider Book, second edition** Scott Wilson, David Cottle, Nick Collins, 2025-04-29 A comprehensive update of the essential reference to SuperCollider with new material on machine learning musical notation and score making SC Tweets alternative editors parasite languages non standard synthesis and the cross platform GUI library SuperCollider is one of the most important domain specific audio programming languages with wide ranging applications across installations real time interaction electroacoustic pieces generative music and audiovisuals Now in a comprehensively updated new edition The SuperCollider Book remains the essential reference for beginners and advanced users alike offering students and professionals a user friendly guide to the language s design syntax and use Coverage encompasses the basics as well as explorations of advanced and cutting edge topics including microsound sonification spatialization non standard synthesis and machine learning Second edition highlights New chapters on musical notation and score making machine learning SC Tweets alternative editors parasite languages non standard synthesis SuperCollider on small computers and the cross platform GUI library New tutorial on installing setting up and running the SuperCollider IDE Technical documentation of implementation and information on writing your own unit generators Diverse artist statements from international musicians Accompanying code examples and extension libraries

**Extended Notation** Christian Dimpker, 2013 Most of the extended instrumental playing techniques as well as electroacoustic music in general are still deprived of a conventional method of notation In order to facilitate the utilization of these unconventional musical elements a coherent and consistent notation system is developed in this work

Numerous extended techniques for playing string instruments wind instruments percussion instruments keyboard instruments and vocal techniques are therefore systematically explained and previous methods of notation discussed *The Cambridge Companion to Electronic Music* Nicholas Collins,Julio d'Escrivan,Julio d' Escrivan Rincón,2017-11-09 Now updated and expanded with four new chapters this book explores the history theory creation and analysis of electronic music

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