



The Audio Programming Book (MIT Press)

By Richard Boulanger, Victor Lazzarini, Max Mathews

Download now

Read Online ➔

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews

This comprehensive handbook of mathematical and programming techniques for audio signal processing will be an essential reference for all computer musicians, computer scientists, engineers, and anyone interested in audio. Designed to be used by readers with varying levels of programming expertise, it not only provides the foundations for music and audio development but also tackles issues that sometimes remain mysterious even to experienced software designers. Exercises and copious examples (all cross-platform and based on free or open source software) make the book ideal for classroom use. Fifteen chapters and eight appendixes cover such topics as programming basics for C and C++ (with music-oriented examples), audio programming basics and more advanced topics, spectral audio programming; programming Csound opcodes, and algorithmic synthesis and music programming. Appendixes cover topics in compiling, audio and MIDI, computing, and math. The sections and chapters of the book are arranged progressively and topics can be followed from chapter to chapter and from section to section. At the same time, each section can stand alone as a self-contained unit. Readers will find The Audio Programming Book a trustworthy companion on their journey through making music and programming audio on modern computers.

↓ [Download The Audio Programming Book \(MIT Press\) ...pdf](#)

📖 [Read Online The Audio Programming Book \(MIT Press\) ...pdf](#)

The Audio Programming Book (MIT Press)

By Richard Boulanger, Victor Lazzarini, Max Mathews

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews

This comprehensive handbook of mathematical and programming techniques for audio signal processing will be an essential reference for all computer musicians, computer scientists, engineers, and anyone interested in audio. Designed to be used by readers with varying levels of programming expertise, it not only provides the foundations for music and audio development but also tackles issues that sometimes remain mysterious even to experienced software designers. Exercises and copious examples (all cross-platform and based on free or open source software) make the book ideal for classroom use. Fifteen chapters and eight appendixes cover such topics as programming basics for C and C++ (with music-oriented examples), audio programming basics and more advanced topics, spectral audio programming; programming Csound opcodes, and algorithmic synthesis and music programming. Appendixes cover topics in compiling, audio and MIDI, computing, and math. The sections and chapters of the book are arranged progressively and topics can be followed from chapter to chapter and from section to section. At the same time, each section can stand alone as a self-contained unit. Readers will find The Audio Programming Book a trustworthy companion on their journey through making music and programming audio on modern computers.

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews
Bibliography

- Rank: #720503 in eBooks
- Published on: 2010-10-22
- Released on: 2010-10-22
- Format: Kindle eBook



[Download The Audio Programming Book \(MIT Press\) ...pdf](#)



[Read Online The Audio Programming Book \(MIT Press\) ...pdf](#)

Editorial Review

Review

I particularly like the way in which the authors treat Csound both as a tool and as a computer program whose internals are worthy of study and understanding. Again, the material here should be useful to experienced programmers who are just beginning with digital audio, as well as to those with a good understanding of digital sound who want to learn more about C programming.

(Paul LaFollette *Computing Reviews*)

The Audio Programming Book is an invaluable resource for composers, sound designers, and programmers. The contributors have done an outstanding job of communicating not only the technology but also the artistry of programming audio applications. That art will surely flourish further, thanks to their efforts.

(Robert Rowe, Director, Steinhardt Music Composition Program, New York University)

Thanks to *The Audio Programming Book*, it has become practical for musicians to compose music and sounds themselves and to explore their own sonic world without limitations.

(Jean-Claude Risset, composer)

The essential reference in digital audio programming, linking the rich knowledge and techniques of our past and present to a rapidly evolving future, *The Audio Programming Book* provides its reader with a comprehensive body of programs and processes and teaches the programming skills and math to use them.

(John Chowning, Professor of Music, Emeritus, the Center for Computer Research in Music and Acoustics (CCRMA), Stanford University)

This book represents the meeting point of divergent lines of study that young computer musicians are desperate for. There is an extraordinary demand for a book where computer science, digital signal processing, music synthesis, electronic music, and algorithmic composition all come together. This is the only book you'll ever need if you want to learn to make your own plug-ins. An essential read, at the perfect time.

(BT (aka Brian Transeau), composer/technologist)

About the Author

Richard Boulanger is Professor of Electronic Production and Design at the Berklee College of Music and editor of *The Csound Book: Perspectives in Software Synthesis, Sound Design, Signal Processing, and Programming* (MIT Press, 2000). Victor Lazzarini is Senior Lecturer in the Music Department and Director of the Music Technology Laboratory at the National University of Ireland, Maynooth.

Victor Lazzarini is Senior Lecturer in the Music Department and Director of the Music Technology Laboratory at the National University of Ireland, Maynooth.

Users Review

From reader reviews:

Betty Epperson:

Do you have favorite book? Should you have, what is your favorite's book? Book is very important thing for us to understand everything in the world. Each guide has different aim or even goal; it means that guide has different type. Some people really feel enjoy to spend their time and energy to read a book. They may be reading whatever they take because their hobby is actually reading a book. Why not the person who don't like studying a book? Sometime, individual feel need book when they found difficult problem or perhaps exercise. Well, probably you'll have this The Audio Programming Book (MIT Press).

Melvin Wilhelm:

With other case, little individuals like to read book The Audio Programming Book (MIT Press). You can choose the best book if you want reading a book. Providing we know about how is important any book The Audio Programming Book (MIT Press). You can add understanding and of course you can around the world by way of a book. Absolutely right, because from book you can recognize everything! From your country right up until foreign or abroad you will end up known. About simple point until wonderful thing you could know that. In this era, we can open a book as well as searching by internet product. It is called e-book. You can use it when you feel weary to go to the library. Let's learn.

John Hickman:

Is it you actually who having spare time subsequently spend it whole day through watching television programs or just resting on the bed? Do you need something totally new? This The Audio Programming Book (MIT Press) can be the solution, oh how comes? The new book you know. You are therefore out of date, spending your time by reading in this brand-new era is common not a geek activity. So what these guides have than the others?

Walter Knight:

In this particular era which is the greater man or who has ability in doing something more are more special than other. Do you want to become one of it? It is just simple strategy to have that. What you should do is just spending your time almost no but quite enough to possess a look at some books. One of the books in the top list in your reading list is usually The Audio Programming Book (MIT Press). This book that is qualified as The Hungry Hillside can get you closer in growing to be precious person. By looking right up and review this reserve you can get many advantages.

**Download and Read Online The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews
#Z9G6PRJO5IQ**

Read The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews for online ebook

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews books to read online.

Online The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews ebook PDF download

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews Doc

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews Mobipocket

The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews EPub

Z9G6PRJO5IQ: The Audio Programming Book (MIT Press) By Richard Boulanger, Victor Lazzarini, Max Mathews