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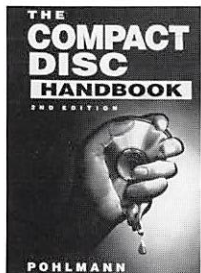
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The Compact Disc Handbook
Ken C. Pohlmann

"The Compact Disc Handbook is an utter must-read for anyone remotely involved in the technical side of digital audio. Ken Pohlmann elevates the science, physics, and engineering of digital audio into something as fun to read and as fascinating as a top-flight mystery novel. This is a superb reference and learning book."
—Bob Carver, Carver Corporation

The Ultimate CD Reference. The compact disc is the most exciting audio invention since Edison's tinfoil cylinder recorder. To celebrate its 10th birthday, Ken Pohlmann has completely updated his popular guide to CD technology—with new sections on optical and electronic principles underlying the CD format as well as the latest details on new CD player designs.

For audio and multi-media enthusiasts, CD owners, recording engineers, and manufacturers, *The Compact Disc Handbook* remains the most comprehensive and detailed reference book on this technology.

Ken C. Pohlmann is professor of music and director of the music engineering programs at the University of Miami. He has written three books and over 500 articles on audio topics and received the Audio Engineering Society's Fellowship Award for his work. In addition to writing and teaching, he is president of Hammer Laboratories, a company devoted to the research, development, and testing of new audio technology.
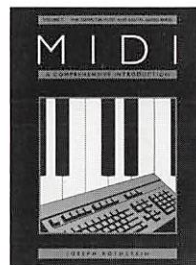
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MIDI: A Comprehensive Introduction
Joseph Rothstein

"Finally, a book that makes it all clear without being condescending. Even a techno-phobic composer like myself can get past the terminology and understand the equipment itself—and it wouldn't surprise me if Rothstein's book creates a new wave of excitement for MIDI in general."
—Dan Welcher, University of Texas

MIDI—the Musical Instrument Digital Interface—is the data communications system that enables music equipment, computers, and software from many different manufacturers to exchange information. Since its introduction in 1983 the impact of MIDI on the design and operation of synthesizers and related equipment has been dramatic.

Rothstein's book provides a practical guide for readers seeking a thorough discussion of the basic principles of MIDI. The text focuses on MIDI hardware and software as a single integrated system. In addition to describing categories of MIDI instruments, accessories, and personal computer software, Rothstein explains what they do, what to look for in each, and how to get it all to work together. With this book, you will be able to evaluate, assemble, and manage a complex hardware/software MIDI system.

Joseph Rothstein is Product Review Editor for Computer Music Journal (MIT Press) and owner of Hanahoa Consulting in Honolulu. He holds a Ph.D. in music composition and is a composer, teacher, and author of numerous articles and reviews.
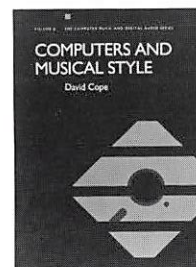
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Computers and Musical Style
David Cope

"This book is going to upset a lot of people—It's great!"
—Todd Souvignier, Mix Bookshelf

"Cope's book presents a computer program with great potential for the careful study and precise analysis of musical styles. It should be of real interest to both music theorists and music historians."
—Leonard B. Meyer, University of Pennsylvania

Mozart or EMI? Based on his research in artificial intelligence, David Cope is able to use his computer program EMI (Experiments in Musical Intelligence) to analyze and replicate the musical styles of such composers as Bach, Prokofiev, Stravinsky, and Scott Joplin. One way to define musical style is through pattern recognition argues Cope. When computer-matching is vigorously applied to coded musical examples, the results can be remarkably close to the work of the original composer. Cope has captured the essence of musical style.

David Cope is a composer and professor of music at the University of California, Santa Cruz. In addition to writing three books and numerous articles on music composition, he has composed 70 of his own works which have been published and performed extensively in the U.S. and abroad.

Contents •A Brief Background of Automated Music Composition •Musical Style Representations •LISP Programming •Style Replication •Musical Examples •Computer-Assisted Composition

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Synthesizer Performance and Real-Time Techniques
Jeff Pressing

"Synthesizer Performance and Real-Time Techniques is a breakthrough teaching guide to musical synthesis. It thoroughly explains the many aspects of playing the synthesizer, making it the first book of its kind to treat the electronic synthesizer as a true musical instrument. Pressing presents the most complete and authoritative look to date on this important music technology."
—David S. Mash, Berklee College of Music

In this book, Jeff Pressing presents a complete orientation to synthesized music. He combines detailed technical advice with instruction on live performance across many musical styles. Beginning with a historical perspective, the book traces the evolution of synthesizer technology up through its current vanguard performance practices.

Terminology is standardized and explained, and included in the book is a comprehensive set of performance exercises. The information presented here can be widely applied and is not specific to any manufacturer.

Jeff Pressing is a composer, performer, and professor at La Trobe University in Australia. He also served on the faculty at Berklee College of Music.

Contents •The Synthesizer as Instrument •Synthesis, Sampling, and Software •MIDI •Synthesizer Technique •Playing a Single Line •Polyphonic Performance and Extended Techniques •Performance Configurations and Practicalities •Sound and Instrument Imitation •Nonkeyboard Controllers •Synthesizer Ensembles and Repertoire •Intelligent and Interactive Performance Systems