

Principles of
Digital Audio

S i x t h E d i t i o n



Ken C. Pohlmann

Principles Of Digital Audio 6th Edition

Ken Pohlmann



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Third Edition Mendel Kleiner,2011-10-01 Acoustics and Audio Technology Third Edition is an introductory text for students of sound and vibration as well as electrical and electronic engineering civil and mechanical engineering computer science signals and systems and engineering physics A basic knowledge of basic engineering mathematics and physics is assumed Problems are included at the end of the chapters and a solutions manual is available to instructors This classroom tested book covers the physical background to and mathematical treatment of sound propagation the properties of human hearing the generation and radiation of sound as well as noise control and the technologies used for pickup recording and reproduction of sound in various environments and much more

Understanding Audio Daniel M. Thompson,2018-08-01 Berklee Guide Understanding Audio explores the fundamentals of audio and acoustics that impact every stage of the music recording process Whether you are a musician setting up your first Pro Tools project studio or you are a seasoned recording engineer or producer eager to find a reference that fills in the gaps in your understanding of audio this book is for you Understanding Audio will enable you to develop a thorough understanding of the underlying principles of sound and take some of the mystery and guesswork out of how equipment setup affects the quality of your recordings Projects at the end of each chapter will assist you in applying these principles to your own recording environment Learn about Basic and advanced audio theory Cables and studio wiring Recording studio and console signal flow Digital and analog audio Studio and listening room acoustics Psychoacoustics In the Studio insights relating audio principles to real recording situations

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

Encyclopedia of Radio 3-Volume Set

Christopher H. Sterling, 2004-03 Produced in association with the Museum of Broadcast Communications in Chicago the Encyclopedia of Radio includes more than 600 entries covering major countries and regions of the world as well as specific programs and people networks and organizations regulation and policies audience research and radio s technology This encyclopedic work will be the first broadly conceived reference source on a medium that is now nearly eighty years old with essays that provide essential information on the subject as well as comment on the significance of the particular person organization or topic being examined

Microphone Techniques in Stereo and Surround Recording Adam

Rosiński, 2022-11-22 Sound engineering is one of the fastest growing branches of music production The need for a broad based discussion on the issues constituting the art of sound engineering persists and loses none of its relevance revealing that sound engineering should not be investigated only in the mathematical and physical context musical acoustics or the engineering aspect signal processing and modification Publications targeted primarily at musicians are few and far between which is why the mutual understanding for different priorities which effectively concern the same issues faced by the engineer the acoustician and the musician seems to be a complex problem and the main concept explored in this publication This book is intended for musicians or sound directors but also acousticians and sound engineers wishing to learn how the musicians think The monograph is also addressed to musicians who intend to record their material in the studio in the near future but do not possess knowledge on studio construction studio workflow or the art of recording It seems important to familiarize the musicians with the reality that awaits them on the other side of the glass thus fostering their responsibility for the work jointly produced by them entering the studio and the sound director

An Introduction to Music Technology Dan

Hosken, 2014-08-01 An Introduction to Music Technology Second Edition provides a clear overview of the essential elements of music technology for today s musician This book focuses on the topics that underlie the hardware and software in use today Sound Audio MIDI Computer Notation and Computer Assisted Instruction Appendices cover necessary computer hardware and software concepts Written for both music technology majors and non majors this textbook introduces fundamental principles and practices so students can learn to work with a wide range of software programs adapt to new music technologies and apply music technology in their performance composition teaching and analysis Features Thorough explanations of key topics in music technology Content applicable to all software and hardware not linked to just one piece of software or gear In depth discussion of digital audio topics such as sampling rates resolutions and file formats Explanations of standard audio plug ins including dynamics processors EQs and delay based effects Coverage of synthesis and sampling in software instruments Pedagogical features including Further Reading sections that allow the student to delve deeper into topics of interest Suggested Activities that can be carried out with a variety of different programs Key Terms at the end of each chapter What Do I Need Chapters covering the types of hardware and software needed in order to put together Audio and MIDI systems A companion website with links to audio examples that demonstrate various concepts step by step tutorials

relevant hardware software and additional audio and video resources The new edition has been fully updated to cover new technologies that have emerged since the first edition including iOS and mobile platforms online notation software alternate controllers and Open Sound Control OSC

The Concise Encyclopedia of American Radio Christopher H. Sterling, Cary O'Dell, 2010-04-12 The Concise Encyclopedia of American Radio is an essential single volume reference guide to this vital and evolving medium Comprised of more than 300 entries spanning the invention of radio to the Internet this reference work addresses personalities music genres regulations technology programming and stations the golden age of radio and other topics relating to radio broadcasting throughout its history The entries are updated throughout and the volume includes nine new entries on topics ranging from podcasting to the decline of radio

Master Handbook of Acoustics, Sixth Edition F. Alton Everest, Ken C. Pohlmann, 2014-12-08 The most complete and current guide to architectural acoustics principles and practices Design and construct audiophile quality sonic environments of all sizes from home theaters and project studios to large scale recording studios Thoroughly revised to include new acoustical design techniques Master Handbook of Acoustics Sixth Edition explains the art and science of room acoustics and architecture by combining theoretical instruction with matter of fact engineering advice Written by renowned experts in the field and refined through several editions this fully updated classic describes the fundamentals of acoustical properties as well as the latest solutions to acoustical problems Throughout this authoritative text provides clear explanations describes hands on techniques and features numerous room designs that can be built as presented or adapted to your particular needs Understand how sound waves travel in free fields and in enclosed spaces Learn how human sound perception and psychoacoustics affect room design Calculate and predict reflections reverberation times and room modes Perform acoustical measurements and site surveys and choose construction materials Design build and install treatment modules to optimize early reflections reverberation and diffusion Design and build home theaters home studios control rooms recording studios and other acoustically sensitive spaces Reduce HVAC noise levels and achieve excellent sound isolation with proven wall window and door designs Understand the acoustics of auditoriums and concert halls Utilize the supplied cost effective plans and specifications for a variety of recording and listening rooms

Master Handbook of Acoustics, Seventh Edition F. Alton Everest, Ken C. Pohlmann, 2021-08-27 The industry standard guide to room acoustics fully updated with the latest advances Based on the classic text written by acoustics pioneer F Alton Everest this revised resource presents the fundamentals of acoustics along with time tested solutions and detailed room designs Master Handbook of Acoustics Seventh Edition explains the art and science of room acoustics and architecture by combining theoretical instruction with matter of fact engineering advice The numerous room designs inside complete with floor and elevation plans and performance analyses can be built as presented or adapted to meet specific needs You will get designs new to this edition including video teleconferencing rooms and voice studios as well as new details on listening room and recording studio construction Inside you ll discover how to Control and utilize sound

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