

Principles of **Digital Audio**

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



Ken C. Pohlmann

Principles Of Digital Audio

Francis Rumsey, Tim McCormick



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leading digital audio engineer You'll find fresh tell all treatments both theoretical and practical of PC audio including IEEE 1394 USB AC 97 and DirectX Internet audio especially MP3 SDMI and RealNetworks G2 streaming audio Low bit rate topics including MPEG 2 AAC MPEG 4 Dolby Digital and PAC DVD DVD Video DVD Audio recordable DVD UDF and MLP Television and radio broadcasting topics ATSC DTV AM IOBC and FM IBOC including USA Digital Radio and LDR prototypes New compact disc topics such as CD R CD RW and Super Audio CD You'll also get valuable insights into new AES standards jitter sound cards data compression digital audio extraction watermarking and much more *PRINCIPLES of digital audio and video* Arch C. Luther, 1999 Desktop Audio Technology Francis Rumsey, 2004 In this thorough introduction to the technology behind audio workstations Dr Francis Rumsey explains not only how digital audio works but also how to make best use of its capabilities A combined revision of his two successful titles MIDI Systems and Control and The Audio Workstation Handbook this new book covers recent developments such as surround sound formats direct stream digital new audio project formats new interfaces and alternatives to MIDI Desktop Audio Technology begins by setting out principles of digital audio and how these are applied in recording replay and editing within workstations MIDI and synthetic audio control is then covered looking at the means by which artificial sounds can be controlled and manipulated This is followed by explanations of hardware including storage devices buses computer interfaces and audio processing options Dr Rumsey then focuses on transferring audio between systems including coverage of audio interfaces networking and file formats The next section examines audio software providing working examples of different commercial packages that exemplify some of the concepts previously described The final chapter considers operational issues such as recent spatial reproduction formats consumer format mastering and quality control issues as well as troubleshooting and systems issues If you are a student lecturer or practitioner in the field of audio and are looking for an authoritative technical guide to the underlying principles of digital audio and MIDI this book is for you Dr Francis Rumsey is a Reader in Sound Recording at the University of Surrey UK and a Visiting Professor at the School of Music in Pite Sweden He is a Fellow of the Audio Engineering Society and a regular contributor to the AES Journal Dr Rumsey is also author of Spatial Audio and co author of Sound and Recording with Tim McCormick and The Digital Interface Handbook with John Watkinson all published by Focal Press

Magnetic Recording Eric D. Daniel, C. Denis Mee, Mark H. Clark, 1998-08-31 The first magnetic recording device was demonstrated and patented by the Danish inventor Valdemar Poulsen in 1898 Poulsen made a magnetic recording of his voice on a length of piano wire MAGNETIC RECORDING traces the development of the watershed products and the technical breakthroughs in magnetic recording that took place during the century from Paulsen's experiment to today's ubiquitous audio video and data recording technologies including tape recorders video cassette recorders and computer hard drives An international author team brings a unique perspective drawn from professional experience to the history of magnetic recording applications Their key insights shed light on how magnetic recording triumphed over all competing technologies and revolutionized the music

radio television and computer industries They also show how these developments offer opportunities for applications in the future

MAGNETIC RECORDING features 116 illustrations including 92 photographs of historic magnetic recording machines and their inventors Sponsored by IEEE Magnetics Society Handbook of Signal Processing in Acoustics David Havelock, 2008 Sound and Recording Francis Rumsey, Tim McCormick, 2012-09-10 This best selling book introduces you to the principles of sound perception audio technology and systems Whilst offering vital reading for audio students and trainee engineers this guide is ideal for anyone concerned with audio sound and recording beginners and professionals alike This new edition is bang up to date with a new chapter on sound quality expanded information on sequencing rewire and digital audio synchronisation pitch correction and blue ray disk *Sound Engineering Explained* Michael Talbot-Smith, 2012-11-12 This straightforward introduction to audio techniques guides the beginner through principles such as sound waves and basic acoustics and offers practical advice for using recording and reproduction equipment Previously known as *Audio Explained* this latest edition includes new material on reverberation and its use in recording principles of digital mixing digital recording including MiniDisc and MP3 digital artificial reverberation Designed with the student in mind information is organised according to level of difficulty An understanding of the basic principles is essential to anyone wishing to make successful recordings and so chapters are split into two parts the first introducing the basic theories in a non technical way the second dealing with the subject in more depth Key facts are clearly identified in separate boxes and further information for the more advanced reader is indicated in shaded boxes In addition questions are provided with answers supplied at the end of the book as a teaching and learning aid *Sound Engineering Explained* is ideal for both serious audio amateurs any student studying audio for the first time in particular those preparing for Part One exams of the City Guilds Sound Engineering 1820 course Handbook of Acoustics Malcolm J. Crocker, 1998-03-09 Acoustical engineers researchers architects and designers need a comprehensive single volume reference that provides quick and convenient access to important information answers and questions on a broad spectrum of topics and helps solve the toughest problems in acoustical design and engineering The *Handbook of Acoustics* meets that need It offers concise coverage of the science and engineering of acoustics and vibration In more than 100 clearly written chapters experts from around the world share their knowledge and expertise in topics ranging from basic aerodynamics and jet noise to acoustical signal processing and from the interaction of fluid motion and sound to infrasound ultrasonics and quantum acoustics Topics covered include General linear acoustics Nonlinear acoustics and cavitation Aeroacoustics and atmospheric sound Mechanical vibrations and shock Statistical methods in acoustics Architectural acoustics Physiological acoustics Underwater sound Ultrasonics quantum acoustics and physical aspects of sound Noise its effects and control Acoustical signal processing Psychological acoustics Speech communication Music and musical acoustics Acoustical measurements and instrumentation Transducers The *Handbook of Acoustics* belongs on the reference shelf of every engineer architect research scientist or designer with a

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