



Digital Audio Technology

**David Brian Williams, Peter Richard
Webster**



Digital Audio Technology:

Digital Audio Technology Jan Maes, Marc Vercammen, 2013-08-22 An expert team from SONY Europe explains the technology behind today's major digital audio consumer products including the Compact Disc MiniDisc Super Audio CD DVD Audio MP3 and Digital Audio Tape Beginning with a fascinating overview of the history of audio technology this fourth edition addresses the principles and technologies which underpin the various formats currently available Considerable technical detail is provided with extensive use of illustrations to enhance understanding Audio engineers students and hi fi enthusiasts who want to gain an understanding of the way these technologies have been developed will find no better introduction than this authoritative guide from SONY a forerunner in the digital audio industry 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 **Digital Audio Technology** Heitarō Nakajima, 1983 Fundamentals of Digital Audio Alan P. Kefauver, 1999-01-01 In Fundamentals of Digital Audio Alan P Kefauver presents a systematic overview of the elements for digital recording and reproducing sound With ideas grounded in the principles of acoustics the author explores the essential issues involved in preserving transferring and modifying sound recordings in the digital domain In addition to references on historic methods of sound reproduction this book includes detailed information about the latest digital audio technology **Digital Audio Technology** H. Nakajima, T. Doi, J.

Fukuda, A. Iga, 1983 **Modern Recording Techniques** David Miles Huber, Robert E. Runstein, 2010 Expanded to include the latest digital audio technology the 7th edition now includes sections on podcasting new surround sound formats and HD and audio **Communication Acoustics** Jens Blauert, 2005-05-20 Speech Generation Acoustics Models and Applications Arild Lacroix The Evolution of Digital Audio Technology John Mourjopoulos Audio Visual Interaction Armin Kohlrausch Speech and Audio Coding Ulrich Heute Binaural Technique Dorte Hammerhoei Henrik Moeller Auditory Virtual Environment Pedro Novo Evolutionary Adaptions for Auditory Communication Georg Klump A Functional View on the Human Hearing Organ Herbert Hudde Modeling of Binaural Hearing Jonas Braasch Psychoacoustics and Sound Quality Hugo Fastl Semiotics for Engineers Ute Jekosch Quality of Transmitted Speech for Humans and Machines Sebastian M ller **Signal and Information Processing, Networking and Computers** Songlin Sun, Tao Hong, Peng Yu, Jiaqi Zou, 2022-10-12 This book collects selected papers from the 9th Conference on Signal and Information Processing Networking and Computers held online in December 2021 The book focuses on the current works of information theory communication system computer science aerospace technologies big data and other related technologies Readers from both academia and industry of this field can contribute and find their interests from the book **International Conference on Computational and Information Sciences (ICCIS) 2014** , 2014-11-11 The 6th International Conference on Computational and Information Sciences ICCIS2014 will be held in NanChong China The 6th International Conference on Computational and Information Sciences ICCIS2014 aims at bringing researchers in the areas of computational and information sciences to exchange new ideas and to explore new ground The goal of the conference is to push the application of modern computing technologies to science engineering and information technologies Following the success of ICCIS2004 ICCIS2010 and ICCIS2011 ICCIS2012 ICCIS2013 ICCIS2014 conference will consist of invited keynote presentations and contributed presentations of latest developments in computational and information sciences The 2014 International Conference on Computational and Information Sciences ICCIS 2014 now in its sixth run has become one of the premier conferences in this dynamic and exciting field The goal of ICCIS is to catalyze the communications among various communities in computational and information sciences ICCIS provides a venue for the participants to share their recent research and development to seek for collaboration resources and opportunities and to build professional networks **Media and Technology in Emerging African Democracies** Cosmas U. Nwokefor, Kehbuma Langmia, 2010 Media and Technology in Emerging African Democracies is a standard text that will give students an opportunity to familiarize themselves with some of the best literature in media technology impact in emerging African democracies with relevant concentration on information and communication technology ICT This textbook is a collection of essays that may be used as primary reading for courses on mass media technology and information communication technology ICT It is also suitable as supplementary reading in media and politics political science and courses that focus on political communication and business communication The book serves

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Digital Audio Technology Brian P. Heneghan,1999 **Network Technology for Digital Audio** Andy Bailey,2013-07-18
Network Technology for Digital Audio examines the transfer of audio and other related data over digital communication networks Encompassing both the data communication and audio industries it unravels the intricacies of computer networking technique and theory viewed from an audio perspective Looking at commercial and ratified standards both current and developing this book covers digital architectural solutions such as IEEE 1394 Firewire USB Fibre Channel and ATM alongside their counterparts within the audio industry S P DIF ADAT AES EBU and MADI are discussed from the audio industry standpoint and solutions contrasted Explanations of packet switching and internetworking are also included Studying new developments and trends it covers the pros and cons and looks at the work being done to deliver the requirements of the digital audio environment Proprietary and open systems developed within the audio industry are examined with each case being supported with appropriate history and clear technical explanation The book helps readers build a better understanding of the issues surrounding the transfer of real time audio digital data Touching on the history of the Internet and the technologies it spawned it explains the theory and possibilities for the same technologies to support inter device communications within a studio environment *Network Technology For Digital Audio* will provide on tap knowledge for students and lecturers on audio related and music technology courses and will prepare the working professionals within the industry for progress and changes to come *Network Technology for Digital Audio* is part of the Focal Press Music Technology Series **Principles of Digital Audio** Ken C. Pohlmann,2000 Ken Pohlmann s Classic Completely Updated From the basics to the cutting edge Ken Pohlmann s *Principles of Digital Audio* is packed with vital information Through three editions this popular text has illuminated the frontiers of digital audio science Now this completely updated and substantially revised Fourth Edition brings you the tools you need to capitalize on the explosive expansion of digital

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