

Principles Of Digital Audio Sixth Edition

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1 Sound and Numbers - Principles of Digital Audio, Sixth ...

This book is more about the principles of digital audio hardware design than anything. The author, also a college professor, starts with the absolute beginning and the binary number system, sampling, quantization, aliasing, and dither and then moves into all of the topics that you need to design and analyze modern digital audio systems.

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Widely acknowledged as the "bible" of digital audio for both professional designers and engineering students, "Principles of Digital Audio" has been updated and expanded to introduce both audio and computer users to the myriad new technologies that are now transforming the field.

The definitive guide to digital engineering--fully updated Gain a thorough understanding of digital audio tools, techniques, and practices from this completely revised and expanded resource. Written by industry pioneer and Audio Engineering Society Fellow Ken C. Pohlmann, Principles of Digital Audio, Sixth Edition, describes the technologies behind today's audio equipment in a clear, practical style. Covering basic theory to the latest technological advancements, the book explains how to apply digital conversion, processing, compression, storage, streaming, and transmission concepts. New chapters on Blu-ray, speech coding, and low bit-rate coding are also included in this bestselling guide. Learn about discrete time sampling, quantization, and signal processing Examine details of CD, DVD, and Blu-ray players and discs Encode and decode AAC, MP3, MP4, Dolby Digital, and other files Prepare content for distribution via the Internet and digital radio and television Learn the critical differences between music coding and speech coding Design low bit-rate codecs to optimize memory capacity while preserving fidelity Develop methodologies to evaluate the sound quality of music and speech files Study audio transmission via HDMI, VoIP, Wi-Fi, and Bluetooth Handle digital rights management, fingerprinting, and watermarking Understand how one-bit conversion and high-order noise shaping work.

Learn the technology behind hearing aids, Siri, and Echo Audio source separation and speech enhancement aim to extract one or more source signals of interest from an audio recording involving several sound sources. These technologies are among the most studied in audio signal processing today and bear a critical role in the success of hearing aids, hands-free phones, voice command and other noise-robust audio analysis systems, and music post-production software. Research on this topic has followed three convergent paths, starting with sensor array processing, computational auditory scene analysis, and machine learning based approaches such as independent component analysis, respectively. This book is the first one to provide a comprehensive overview by presenting the common foundations and the differences between these techniques in a unified setting. Key features: Consolidated perspective on audio source separation and speech enhancement. Both historical perspective and latest advances in the field, e.g. deep neural networks. Diverse disciplines: array processing, machine learning, and statistical signal processing. Covers the most important techniques for both single-channel and multichannel processing. This book provides both introductory and advanced material suitable for people with basic knowledge of signal processing and machine learning. Thanks to its comprehensiveness, it will help students select a promising research track, researchers leverage the acquired cross-domain knowledge to design improved techniques, and engineers and developers choose the right technology for their target application scenario. It will also be useful for practitioners from other fields (e.g., acoustics, multimedia, phonetics, and musicology) willing to exploit audio source separation or speech enhancement as pre-processing tools for their own needs.

Revision of the 1989 book The compact disk; a handbook of theory and use. A technical discussion of the system. Annotation copyrighted by Book News, Inc., Portland, OR

Master the basics from first principles: the physics of sound, principles of hearing etc, then progress onward to fundamental digital principles, conversion, compression and coding and then onto transmission, digital audio workstations, DAT and optical disks. Get up to speed with how digital audio is used within DVD, Digital Audio Broadcasting, networked audio and MPEG transport streams. All of the key technologies are here: compression, DAT, DAB, DVD, SACD, oversampling, noise shaping and error correction theories are treated in a simple yet accurate form. Thoroughly researched, totally up-to-date and technically accurate this is the only book you need on the subject.

Principles of Real Estate Practice in Massachusetts contains the essentials of the national and Massachusetts real estate law, principles, and practices necessary for basic competence as a real estate professional and as mandated by Massachusetts license law. It is based on our highly successful and popular national publication, Principles of Real Estate Practice, which is in use in real estate schools nationwide. The text is tailored to the needs of the pre-license student. It is designed to- make it easy for students to learn the material and pass their real estate exam -prepare students for numerous career applications -stress practical, rather than theoretical, skills and knowledge. Principles of Real Estate Practice in Massachusetts is streamlined, direct and to-the-point. It includes multiple learning reinforcements. It has a student-oriented organization, both within each chapter and from chapter to chapter. Its examples and exercises are grounded in the authors ' many years in real estate education.

Introduction to Digital Audio Coding and Standards provides a detailed introduction to the methods, implementations, and official standards of state-of-the-art audio coding technology. In the book, the theory and implementation of each of the basic coder building blocks is addressed. The building blocks are then fit together into a full coder and the reader is shown how to judge the performance of such a coder. Finally, the authors discuss the features, choices, and performance of the main state-of-the-art coders defined in the ISO/IEC MPEG and HDTV standards and in commercial use today. The ultimate goal of this book is to present the reader with a solid enough understanding of the major issues in the theory and implementation of perceptual audio coders that they are able to build their own simple audio codec. There is no other source available where a non-professional has access to the true secrets of audio coding.

Providing vital reading for audio students and trainee engineers, Sound and Recording is the essential guide for anyone who wants a solid grounding in both theory and industry practices in audio, sound, and recording. This updated and comprehensively restructured edition includes new content on DAW configuration, effects processing, 3D/immersive audio systems, object-based audio, and VR audio technology. This bestselling book introduces you to the principles of sound, perception, audio technology, and systems. Sound and Recording is the ideal audio engineering text for students, an accessible reference for professionals, and a comprehensive introduction for hobbyists.

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