



Principles of Digital Audio, Sixth Edition (Digital Video/Audio)

Ken Pohlmann

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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



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