High Definition Audio for the Digital Home: Proven Techniques For Getting It Right The First Time (Computer System Design)

David Roach, Scott Janus, Wayne Jones

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The personal computer is evolving to become an integral component of the digital home. Essential to assuming this new role will be the ability to deliver high-fidelity audio that is equivalent to home entertainment system audio.

High Definition Audio for the Digital Home provides hardware and software developers a wealth of insight into all aspects of personal computer high definition audio subsystem design. From the critical considerations related to circuit board layout to overcoming challenges of audio latency.

Highlights Include:

> Key concepts for successful design and implementation of high definition audio based on PC hardware and software
> Complete signal path view with hardware and software layouts to understand how signals pass through the system.
> Intel® High Definition Audio specification examination and explanation.
> The challenges presented by digital rights management, security and copy protection.
> Performance characterization and certification of high definition audio designs.
> Fundamentals of audio design, audio interfaces, surround sound and signal processing.
> Balancing usability, cost and audio performance.

This book tells you how to specify and build each portion of a personal computer high definition audio subsystem.

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