



# Applied Signal Processing: Concepts, Circuits, and Systems

By Nadder Hamdy

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## Applied Signal Processing: Concepts, Circuits, and Systems By Nadder Hamdy

Classical signal processing techniques are based primarily on the analog nature of all signals. However, the continuously improving performance of digital circuitry and processors has prompted a switch to digital signal processing techniques rather than the traditional analog ones.

**Applied Signal Processing** recognizes the linkage between the two paradigms and presents a unified treatment of both subjects (analog and digital signal processing) in one authoritative volume. It introduces underlying principles, basic concepts, and definitions as well as classic and contemporary designs of signal processing systems. The author includes a detailed description of data converters, an interface between the real world of analog signals and the artificial world of digital signals. He provides a concise presentation of topics by limiting the number of complex equations and using lucid language. Numerous real-world application examples are featured within each chapter including architectures from Texas Instruments, Motorola, and Analog Devices.

With its compounded coverage of both analog and digital signal processing techniques, this book provides engineers with the knowledge they need to understand the analog basis of modern digital signal processing techniques and construct architectures for modern systems.

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