

Low Power Emerging Wireless Technologies (Devices, Circuits, and Systems)

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Advanced concepts for wireless communications offer a vision of technology that is embedded in our surroundings and practically invisible, but present whenever required. Although the use of deep submicron CMOS processes allows for an unprecedented degree of scaling in digital circuitry, it complicates the implementation and integration of traditional RF circuits. The requirement for long operating life under limited energy supply also poses severe design constraints, particularly in critical applications in commerce, healthcare, and security. These challenges call for innovative design solutions at the circuit and system levels. **Low Power Emerging Wireless Technologies** addresses the crucial scientific and technological challenges for the realization of fully integrated, highly efficient, and cost-effective solutions for emerging wireless applications.

Get Insights from the Experts on Wireless Circuit Design

The book features contributions by top international experts in wireless circuit design representing both industry and academia. They explore the state of the art in wireless communication for 3G and 4G cellular networks, millimeter-wave applications, wireless sensor networks, and wireless medical technologies. The emphasis is on low-power wireless applications, RF building blocks for wireless applications, and short-distance and beam steering. Topics covered include new opportunities in body area networks, medical implants, satellite communications, automobile radar detection, and wearable electronics.

Exploit the Potential behind Emerging Green Wireless Technologies

A must for anyone serious about future wireless technologies, this multidisciplinary book discusses the challenges of emerging power-efficient applications. Written for practicing engineers in the wireless communication field who have some experience in integrated circuits, it is also a valuable resource for graduate students.

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