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information on wearable sensors that would be a valuable addition to the library of any engineer interested in this field. Wearable Sensors covers a wide variety of topics associated with the development and application of various wearable environment. This book provides a comprehensive theoretical framework for optimizing performance, discussing joint optimization of Noise Figure and Input Intercept Point in receiver systems. Also examined are original techniques to optimize design; device modelling; and hardware implementation.

Adopt Multi-Standard RF Front-Ends: Vipin Vikramkumar 2019-09-07 This book investigates solutions, benefits, limitations, and costs associated with multi-standard operation of RF front-ends and their ability to adapt to variable radio environments. It highlights the opportunities of RF front-ends to achieve maximum performance within a certain power budget, while targeting full integration. Finally, the book investigates possibilities for new radio, low-power circuit topologies in CMOS technology.

Ultra Low Power BiomedicalElectronic Circuit Design: 2019-08-25 This book provides, for the first time, a broad and deep treatment of the field of ultra low power electronics and biomedical. It discusses fundamental principles and circuit techniques for ultra low-power electronic circuit design and their applications in biomedical systems. It also covers new ultra low-power efficient circuits and system techniques that enables significant improvements in power consumption in medical and RF electronics. The book presents a unique, unified view of ultra low power circuit design and emphasizes the use of ultra low power efficient radiofrontend circuit techniques in biomedical systems. Chapter topics cover energy harvesting, the future of energy, on-chip communication, and the potential of ultra low power electronics. The book concludes with an examination of the impact of ultra low power electronics in biomedical systems.

VLSI Design and Test: A. Anirban Sengupta 2019-08-17 This book constitutes the refereed proceedings of the 23rd International Symposium on VLSI Design and Test, VDAT 2019, held in Indore, India, in July 2019. The 63 full papers were carefully selected from 106 submissions. The papers are organized in topical sections covering design modeling, architecture, and security; hardware design and applications; low power design; and advanced measurement. The book is intended for researchers and practitioners in the field of VLSI design and test.

Design Techniques for Ultra Low Voltage CMOS Continuous-Time Filters and Continuous-Time Analog-to-Digital Converters: K. Souri 2019-08-15 The book is intended for researchers and practitioners in the field of analog circuit design, as well as for students and educators in the area of analog circuits.

Analog Front-Ends for Wireless Communications: Wideband Continuous-Time Sigma-Delta ADCs: 2019-08-15 This book investigates the design of wideband continuous-time sigma-delta modulators for wireless communications. It provides an overview of the state-of-the-art in the field and presents new circuit designs for improving the performance of wideband continuous-time sigma-delta modulators. The book is intended for researchers and practitioners in the field of analog circuit design, as well as for students and educators in the area of analog circuits.

Power Management: Alice Tasic 2019-08-15 This book investigates the design of power management systems for energy-efficient electronic devices. It provides an overview of the state-of-the-art in the field and presents new circuit designs for improving the performance of power management systems. The book is intended for researchers and practitioners in the field of analog circuit design, as well as for students and educators in the area of analog circuits.

Energy-Efficient Smart Temperature Sensors: Vojkan Vidojkovic 2008-02-07 This book investigates the design of energy-efficient smart temperature sensors for industrial and consumer applications. It provides an overview of the state-of-the-art in the field and presents new circuit designs for improving the performance of energy-efficient smart temperature sensors. The book is intended for researchers and practitioners in the field of analog circuit design, as well as for students and educators in the area of analog circuits.

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Ambient Assisted Living: K. Souri 2019-08-15 This book investigates the design of ambient assisted living systems for elderly care. It provides an overview of the state-of-the-art in the field and presents new circuit designs for improving the performance of ambient assisted living systems. The book is intended for researchers and practitioners in the field of analog circuit design, as well as for students and educators in the area of analog circuits.

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