



Ultra Low Power Bioelectronics: Fundamentals, Biomedical Applications, and Bio-Inspired Systems

Rahul Sarpeshkar

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This book provides, for the first time, a broad and deep treatment of the fields of both ultra low power electronics and bioelectronics. It discusses fundamental principles and circuits for ultra low power electronic design and their applications in biomedical systems. It also discusses how ultra-energy-efficient cellular and neural systems in biology can inspire revolutionary low power architectures in mixed-signal and RF electronics. A wealth of insights and examples from cochlear implants, brain implants, systems and synthetic biology, cardiac devices, bio-molecular sensing, and bio-inspired systems, make the book useful and engaging for students and practicing engineers. The book presents a unique, unifying view of ultra low power analog and digital electronics and emphasizes the use of the ultra-energy-efficient subthreshold regime of transistor operation in both. Chapters on batteries, energy harvesting, and the future of energy provide an understanding of fundamental relationships between energy use and energy generation at small scales and at large scales, in biology and in engineering.

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Mary Barnett:

In this era globalization it is important to someone to get information. The information will make anyone to understand the condition of the world. The condition of the world makes the information better to share. You can find a lot of personal references to get information example: internet, classifieds, book, and soon. You will see that now, a lot of publisher that print many kinds of book. Often the book that recommended to your account is Ultra Low Power Bioelectronics: Fundamentals, Biomedical Applications, and Bio-Inspired Systems this book consist a lot of the information with the condition of this world now. This particular book was represented how can the world has grown up. The terminology styles that writer use to explain it is easy to understand. The writer made some exploration when he makes this book. That's why this book suitable all of you.

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