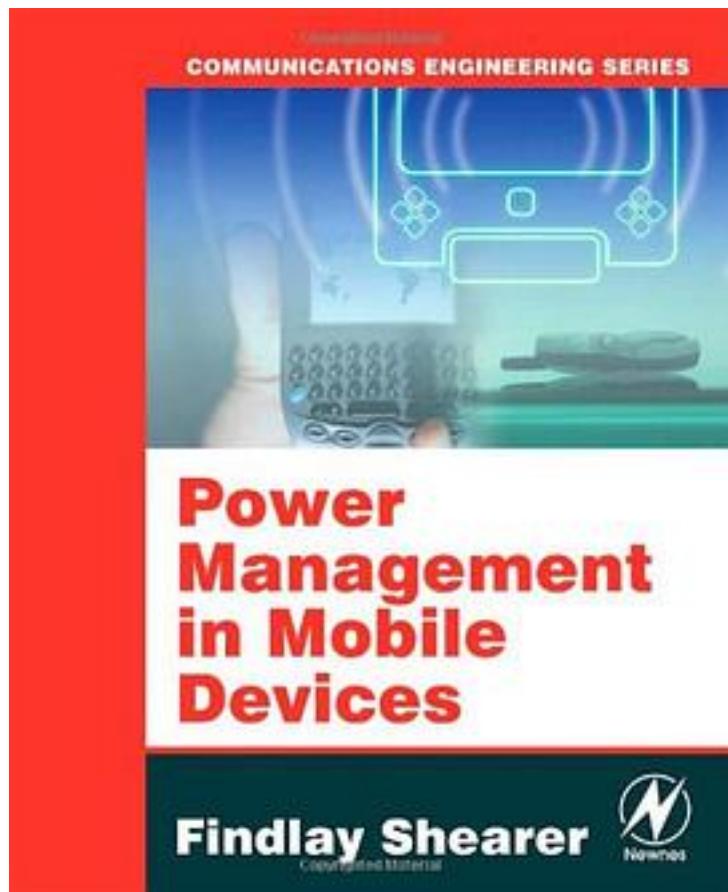


Power Management in Mobile Devices



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Sealed Lead Acid. Nickel Cadmium. Lithium Ion. How do you balance battery life with performance and cost? This book shows you how! Now that 'mobile' has become the standard, the consumer not only expects mobility but demands power longevity in wireless devices. As more and more features, computing power, and memory are

packed into mobile devices such as iPods, cell phones, and cameras, there is a large and growing gap between what devices can do and the amount of energy engineers can deliver. In fact, the main limiting factor in many portable designs is not hardware or software, but instead how much power can be delivered to the device. This book describes various design approaches to reduce the amount of power a circuit consumes and techniques to effectively manage the available power. It includes power management advice on: low power packaging techniques; power and clock gating; energy efficient compilers; various display technologies; linear versus switched regulators; and software techniques and intelligent algorithms. It addresses power versus performance that each newly developed mobile device faces. Robust case studies drawn from the author's 30 plus years of extensive real world experience are included. Both hardware and software are discussed concerning their roles in power.

作者介绍:

目录:

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标签

英文原版

专业书

EE

计算机

电源管理

手机

功耗控制

评论

这领域书籍太少了啊...这本是我能找到最详细的一本了，虽然和别的领域完全不是一个数量级

前边几章讲的很不错，非常系统而又细致的讲解了各种功耗的控制的原则与方法，后边讲的有些小家子气，没有重点，显得很繁杂。

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书评

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