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## Managing Power Electronics: VLSI and DSP-Driven Computer Systems (Hardback)

By Nazzeno Rossetti

John Wiley and Sons Ltd, United States, 2005. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. A unique system focus that presents specific solutions for specific appliances This publication presents state-of-the-art power management techniques for modern electronic appliances that rely on such very large-scale integration (VLSI) chips as CPUs and DSPs. The author thoroughly covers all aspects of the field, including semiconductor manufacturing processes, packages, circuits, functions, and systems. A unique and significant contribution to the field, the publication adopts a system focus by first presenting the appliance and then delving into the power management architecture and topologies that best serve each appliance. In addition to specific techniques and applications, the publication discusses fundamental physical and socioeconomic issues. For example, the author examines Moore's law and its effect on power management and heat dissipation, which points to a future breakthrough needed to continue the fast pace of advancement in the high-tech industry. The author provides a solid technical foundation and an analysis of popular electronic appliances, including: Overview of the semiconductor industry Plain-English discussion of semiconductor processes and packages Step-by-step guide to analog design building from the transistor to higher-level functions, leading to the implementation of...



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