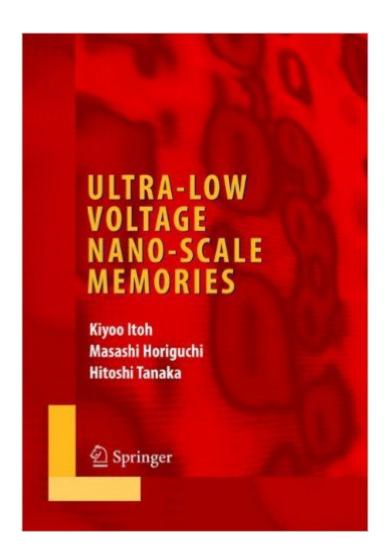
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Ultra-Low Voltage Nano-Scale Memories (Integrated Circuits And Systems)





Synopsis

Ultra-low voltage large-scale integrated circuits (LSIs) in nano-scale technologies are needed both to meet the needs of a rapidly growing mobile cell phone market and to offset a significant increase in the power dissipation of high-end microprocessor units. The goal of this book is to provide a detailed explanation of the state-of-the-art nanometer and sub-1-V memory LSIs that are playing decisive roles in power conscious systems. Emerging problems between the device, circuit, and system levels are systematically discussed in terms of reliable high-speed operations of memory cells and peripheral logic circuits. The effectiveness of solutions at device and circuit levels is also described at length through clarifying noise components in an array, and even essential differences in ultra-low voltage operations between DRAMs and SRAMs.

Book Information

Series: Integrated Circuits and Systems Hardcover: 346 pages Publisher: Springer; 2007 edition (August 22, 2007) Language: English ISBN-10: 0387966986 ISBN-13: 978-0387333984 ASIN: 0387333983 Product Dimensions: 6.1 × 0.8 × 9.2 inches Shipping Weight: 1.6 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #3,818,193 in Books (See Top 100 in Books) #55 in Books > Computers & Technology > Programming > Algorithms > Memory Management #588 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #1024 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics >

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