The book was found

Nano-CMOS Circuit And Physical Design





Synopsis

Based on the authors' expansive collection of notes taken over the years, Nano-CMOS Circuit and Physical Design bridges the gap between physical and circuit design and fabrication processing, manufacturability, and yield. This innovative book covers: process technology, including sub-wavelength optical lithography; impact of process scaling on circuit and physical implementation and low power with leaky transistors; and DFM, yield, and the impact of physical implementation.

Book Information

Hardcover: 416 pages Publisher: Wiley-IEEE Press; 1 edition (November 29, 2004) Language: English ISBN-10: 0471466107 ISBN-13: 978-0471466109 Product Dimensions: 6.2 x 1 x 9.5 inches Shipping Weight: 1.6 pounds Average Customer Review: 5.0 out of 5 stars Â See all reviews (2 customer reviews) Best Sellers Rank: #2,132,130 in Books (See Top 100 in Books) #86 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI #662 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #6520 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors

Customer Reviews

Although written at the time when BSIM4 was still hot off the press, this book stayed relevant over the years precisely because of its main stated goal of publication: to fight compartmentalization of knowledge in IC design. Isolation between process and circuit design engineers is probably even greater today than it was in 2005. The greatest strength of this book is that it provides measured insight into other worlds in which designers normally don't live in. Not too much, not too little, just enough to perk reader's interest to look further, and at the same time providing insight into complexity of the most advanced manufacturing process mankind has produced to date. I came across this book five years ago preparing for a node switch, and have been coming back to it ever since to read on the effects that have trickled into design space since then. Most of the predictions of the book have materialized, some haven't, and all are in need of an update. While still a valuable resource, revision of this unique volume is needed, hopefully the IEEE, the authors and the

publisher will agree with me and follow through.

A must read for every custom circuit designer working on 90nm and beyond. Warning! this is not for the novice! A wealth of information. Can't wait for the next book by the authors.

Download to continue reading...

Nano-CMOS Circuit and Physical Design CMOS SRAM Circuit Design and Parametric Test in Nano-Scaled Technologies: Process-Aware SRAM Design and Test (Frontiers in Electronic Testing) Nano-CMOS Gate Dielectric Engineering Winter Circuit (Show Circuit Series -- Book 2) (The Show Circuit) CMOS Analog Circuit Design (The Oxford Series in Electrical and Computer Engineering) CMOS Circuit Design, Layout, and Simulation, 3rd Edition (IEEE Press Series on Microelectronic Systems) CMOS Analog Circuit Design Designing Dynamic Circuit Response (Analog Circuit Design) Circuit Engineering: The Beginner's Guide to Electronic Circuits, Semi-Conductors, Circuit Boards, and Basic Electronics Summer Circuit (Show Circuit Series -- Book 1) 2015 Federal Circuit Yearbook: Patent Law Developments in the Federal Circuit Enzyme Nanoparticles: Preparation, Characterisation, Properties and Applications (Micro and Nano Technologies) Ultra-Low Voltage Nano-Scale Memories (Integrated Circuits and Systems) Embedded Memories for Nano-Scale VLSIs (Integrated Circuits and Systems) Mondo Nano: Fun and Games in the World of Digital Matter (Experimental Futures) CMOS VLSI Design: A Circuits and Systems Perspective (3rd Edition) CMOS VLSI Design: A Circuits and Systems Perspective Chip Design for Submicron VLSI: CMOS Layout and Simulation Analog Design for CMOS VLSI Systems (The Springer International Series in Engineering and Computer Science) Design of Analog CMOS Integrated Circuits

<u>Dmca</u>