

FINFETS AND OTHER MULTI-GATE TRANSISTORS (INTEGRATED CIRCUITS AND SYSTEMS) FROM SPRINGER



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Edited by
J.-P. Colinge

FinFETs and Other Multi-Gate Transistors

A 3D perspective rendering of a FinFET transistor structure, showing the vertical fins and gate stack on a substrate. The structure is rendered in a dark red color, matching the book cover's theme.

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FinFETs and Other Multi-Gate Transistors provides a comprehensive description of the physics, technology and circuit applications of multigate field-effect transistors (FETs). It explains the physics and properties of these devices, how they are fabricated and how circuit designers can use them to improve the performances of integrated circuits.

The International Technology Roadmap for Semiconductors (ITRS) recognizes the importance of these devices and places them in the "Advanced non-classical CMOS devices" category. Of all the existing multigate devices, the FinFET is the most widely known.

FinFETs and Other Multi-Gate Transistors is dedicated to the different facets of multigate FET technology and is written by leading experts in the field.

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This book explains the physics and properties of multi-gate field-effect transistors (MuGFETs), how they are made and how circuit designers can use them to improve the performances of integrated circuits. It covers the emergence of quantum effects due to the reduced size of the devices and describes the evolution of the MOS transistor from classical structures to SOI (silicon-on-insulator) and then to MuGFETs.

- Sales Rank: #2421722 in Books
- Published on: 2007-11-26
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .81" w x 6.14" l, 1.59 pounds
- Binding: Hardcover
- 340 pages

Features

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FinFETs and Other Multi-Gate Transistors is dedicated to the different facets of multigate FET technology and is written by leading experts in the field.

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