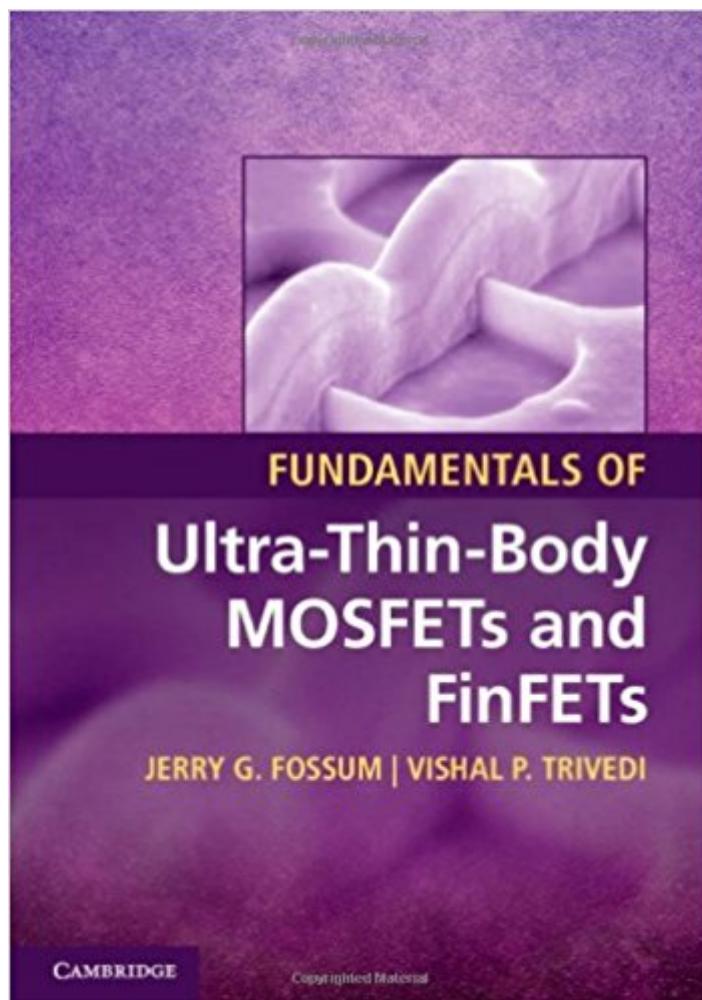


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# Fundamentals Of Ultra-Thin-Body MOSFETs And FinFETs



## Synopsis

Understand the theory, design and applications of the two principal candidates for the next mainstream semiconductor-industry device with this concise and clear guide to FD/UTB transistors.

- Describes FD/SOI MOSFETs and 3-D FinFETs in detail
- Covers short-channel effects, quantum-mechanical effects, applications of UTB devices to floating-body DRAM and conventional SRAM
- Provides design criteria for nanoscale FinFET and nanoscale thin- and thick-BOX planar FD/SOI MOSFET to help reduce technology development time
- Projects potential nanoscale UTB CMOS performances
- Contains end-of-chapter exercises.

For professional engineers in the CMOS IC field who need to know about optimal non-classical device design and integration, this is a must-have resource.

## Book Information

Hardcover: 226 pages

Publisher: Cambridge University Press; 1 edition (October 21, 2013)

Language: English

ISBN-10: 1107030412

ISBN-13: 978-1107030411

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

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I like this book to understand the basics on 3D structure transistors. Complicated phenomena always roots from basics.

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