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"Fundamentals of Modern VLSI Devices, by Taur and Ning, has been an important reference text for our graduate semiconductor device physics course at UC Berkeley for several years. It provides a well-written review of the operation of MOSFETs and BJTs.

Fundamentals of Modern VLSI Devices: Taur, Yuan ...

Fundamentals of Modern VLSI Devices This book examines in detail the basic properties and design, including chip integration, of CMOS and bipolar VLSI devices and discusses the various factors that affect their performance.

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Summary Since the publication of the first edition of Fundamentals of Modern VLSI Devices by Cambridge University Press in 1998, we received much praise and many encouraging reviews on the book. It has been adopted as a textbook for first-year graduate courses on microelectronics in many major universities in the United States and worldwide.

Fundamentals of Modern VLSI Devices - cambridge.org

This chapter reviews the basic concepts of semiconductor device physics. Starting with electrons and holes and their transport in silicon, we focus on the most elementary types of devices in VLSI technology: p-n junction, metal-oxide-semiconductor (MOS) capacitor, and metal-semiconductor contacts.

Fundamentals of Modern VLSI Devices | Yuan Taur, Tak H ...

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typical p-n diodes in modern VLSI devices should be treated as shallow-junction diodes. There are effective means for reducing the minority-carrier current in a shallow-emitter diode. For instance, a shallow emitter can be contacted using a doped polysilicon layer instead of a metal or metal silicide layer.

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Extensive use of device simulation software. 4 class hours. 4 credits. Texts: "Fundamentals of Modern VLSI Devices, 2nd Edition" by Yuan Taur and Tak Ning, 2009 Prerequisites: EE 482 (Semiconductor Devices) or equivalent. Online Discussion Board

Physics and Modeling of Nanoscale VLSI Devices

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