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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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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.

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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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