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EE164DA_Lecture3_Part1MOSFET basics 1 Fundamentals Of Microelectronics Behzad Razavi

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Professor Razavi is an IEEE Distinguished Lecturer, a Fellow of IEEE, and the author of a number of books, including Principles of Data Conversion System Design, RF Microelectronics (translated to Chinese and Japanese), Design of Analog CMOS Integrated Circuits (translated to Chinese and Japanese), Design of Integrated Circuits for Optical communications, and Fundamentals of Microelectronics. he is also the editor of Monolithic Phase-Locked Loops and Clock recovery circuits and Phase-Locking ...

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$\epsilon_0 = 0.265 \text{ fF}/\mu\text{m}^2$, (2.81) The dielectric constant of materials is usually written in the form $\epsilon_r \epsilon_0$, where ϵ_r is the "relative" dielectric constant and a dimensionless factor (e.g., 11.7), and ϵ_0 the dielectric constant of vacuum ($8.85 \times 10^{-14} \text{ F}/\text{cm}$). Chapter 2 Basic Physics of Semiconductors where 1 fF (femtofarad) = 10^{-15} F .

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Introduction to Microelectronics

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Fundamentals of Microelectronics by Behzad Razavi

Behzad Razavi is an Iranian-American professor and researcher of electrical and electronic engineering. Noted for his research in communications circuitry, Razavi is the director of the Communication Circuits Laboratory at the University of California Los Angeles. He is a Fellow and a distinguished lecturer for the Institute of Electrical and Electronics Engineers. Among his awards, Razavi is a two-time recipient of the Beatrice Winner Award for Editorial Excellence at the 1994 and 2001 Internat

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