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Fundamentals of Microelectronics. To succeed in the practice of microelectronics in industry, students must develop the ability to think intuitively about circuits. They need to move beyond simply plugging and chugging numbers in equations and be prepared to face real design trade-offs.

~~Fundamentals of Microelectronics by Behzad Razavi~~

Fundamentals of Microelectronics (Hardcover) Published February 1st 2008 by John Wiley & Sons. Hardcover, 936 pages. Author (s): Behzad Razavi. ISBN: 0471478466 (ISBN13: 9780471478461) Edition language: English.

~~Editions of Fundamentals of Microelectronics by Behzad Razavi~~

BR Wiley/Razavi/Fundamentals of Microelectronics [Razavi.cls v. 2006] June 30, 2007 at 13:42 1 (1) 1 Introduction to Microelectronics Over the past ?ve decades,microelectronics has revolutionized our lives. While beyond the realm of possibility a few decades ago, cellphones, digital cameras, laptop computers, and many other

~~Introduction to Microelectronics~~

Behzad Razavi (Persian: ????? ???? ?) 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.

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Fundamentals of Microelectronics, 3rd Edition, is a comprehensive introduction to the design and analysis of electrical circuits, enabling students to develop the practical skills and engineering intuition necessary to succeed in their future careers. Through an innovative “analysis by inspection” framework, students learn to deconstruct complex problems into familiar components and reach solutions using basic principles. A step-by-step synthesis approach to microelectronics demonstrates the role of each device in a circuit while helping students build “design-oriented” mindsets. The revised third edition covers basic semiconductor physics, diode models and circuits, bipolar transistors and amplifiers, oscillators, frequency response, and more. In-depth chapters feature illustrative examples and numerous problems of varying levels of difficulty, including design problems that challenge students to select the bias and component values to satisfy particular requirements. The text contains a wealth of pedagogical tools, such as application sidebars, chapter summaries, self-tests with answers, and Multisim and SPICE software simulation problems. Now available in enhanced ePub format, Fundamentals of Microelectronics is ideal for single- and two-semester courses in the subject.

Fundamentals of Microelectronics, 2nd Edition is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The book's unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which

builds the confidence and intuitive skills needed for success.

By helping students develop an intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi's Microelectronics retains its hallmark emphasis on analysis by inspection and building students' design intuition, and it incorporates a host of new pedagogical features that make it easier to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific chapter sections.

The Acclaimed RF Microelectronics Best-Seller, Expanded and Updated for the Newest Architectures, Circuits, and Devices Wireless communication has become almost as ubiquitous as electricity, but RF design continues to challenge engineers and researchers. In the 15 years since the first edition of this classic text, the demand for higher performance has led to an explosive growth of RF design techniques. In RF Microelectronics, Second Edition, Behzad Razavi systematically teaches the fundamentals as well as the state-of-the-art developments in the analysis and design of RF circuits and transceivers. Razavi has written the second edition to reflect today's RF microelectronics, covering key topics in far greater detail. At nearly three times the length of the first edition, the second edition is an indispensable tome for both students and practicing engineers. With his lucid prose, Razavi now Offers a stronger tutorial focus along with hundreds of examples and problems Teaches design as well as analysis with the aid of step-by-step design procedures and a chapter dedicated to the design of a dual-band WiFi transceiver Describes new design paradigms and analysis techniques for circuits such as low-noise amplifiers, mixers, oscillators, and frequency dividers This edition's extensive coverage includes brand new chapters on mixers, passive devices, integer-N synthesizers, and fractional-N synthesizers. Razavi's teachings culminate in a new chapter that begins with WiFi's radio specifications and, step by step, designs the transceiver at the transistor level. Coverage includes Core RF principles, including noise and nonlinearity, with ties to analog design, microwave theory, and communication systems An intuitive treatment of modulation theory and wireless standards from the standpoint of the RF IC designer Transceiver architectures such as heterodyne, sliding-IF, directconversion, image-reject, and low-IF topologies. Low-noise amplifiers, including cascode common-gate and commonsource topologies, noise-cancelling schemes, and reactance-cancelling configurations Passive and active mixers, including their gain and noise analysis and new mixer topologies Voltage-controlled oscillators, phase noise mechanisms, and various VCO topologies dealing with noisepower-tuning trade-offs All-new coverage of passive devices, such as integrated inductors, MOS varactors, and transformers A chapter on the analysis and design of phase-locked loops with emphasis on low phase noise and low spur levels Two chapters on integer-N and fractional-N synthesizers, including the design of frequency dividers Power amplifier principles and circuit topologies along with transmitter architectures, such as polar modulation and outphasing

This modern, pedagogic textbook from leading author Behzad Razavi provides a comprehensive and rigorous introduction to CMOS PLL design, featuring intuitive presentation of theoretical concepts, extensive circuit simulations, over 200 worked examples, and 250 end-of-chapter problems. The perfect text for senior undergraduate and graduate students.

By helping students develop an intuitive understanding of the subject, Fundamentals of Microelectronics teaches them to think like engineers. The second edition of Razavi's Fundamentals of Microelectronics retains its hallmark emphasis on analysis by inspection and building students' design intuition, and it incorporates a host of new pedagogical features that make it easier to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific chapter sections.

With the exponential growth of the number of Internet nodes, the volume of the data transported on the backbone has increased with the same trend. The load of the global Internet backbone will soon increase to tens of terabits per second. This indicates that the backbone bandwidth requirements will increase by a factor of 50 to 100 every seven years. Transportation of such high volumes of data requires suitable media with low loss and high bandwidth. Among the available transmission media, optical fibers achieve the best performance in terms of loss and bandwidth. High-speed data can be transported over hundreds of kilometers of single-mode fiber without significant loss in signal integrity. These fibers progressively benefit from reduction of cost and improvement of performance. Meanwhile, the electronic interfaces used in an optical network are not capable of exploiting the ultimate bandwidth of the fiber, limiting the throughput of the network. Different solutions at both the system and the circuit levels have been proposed to increase the data rate of the backbone. System-level solutions are based on the utilization of wave-division multiplexing (WDM), using different colors of light to transmit several sequences simultaneously. In parallel with that, a great deal of effort has been put into increasing the operating rate of the electronic transceivers using highly-developed fabrication processes and novel circuit techniques.

Equips students with essential industry-relevant knowledge through in-depth explanations, practical applications, examples, and exercises.

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