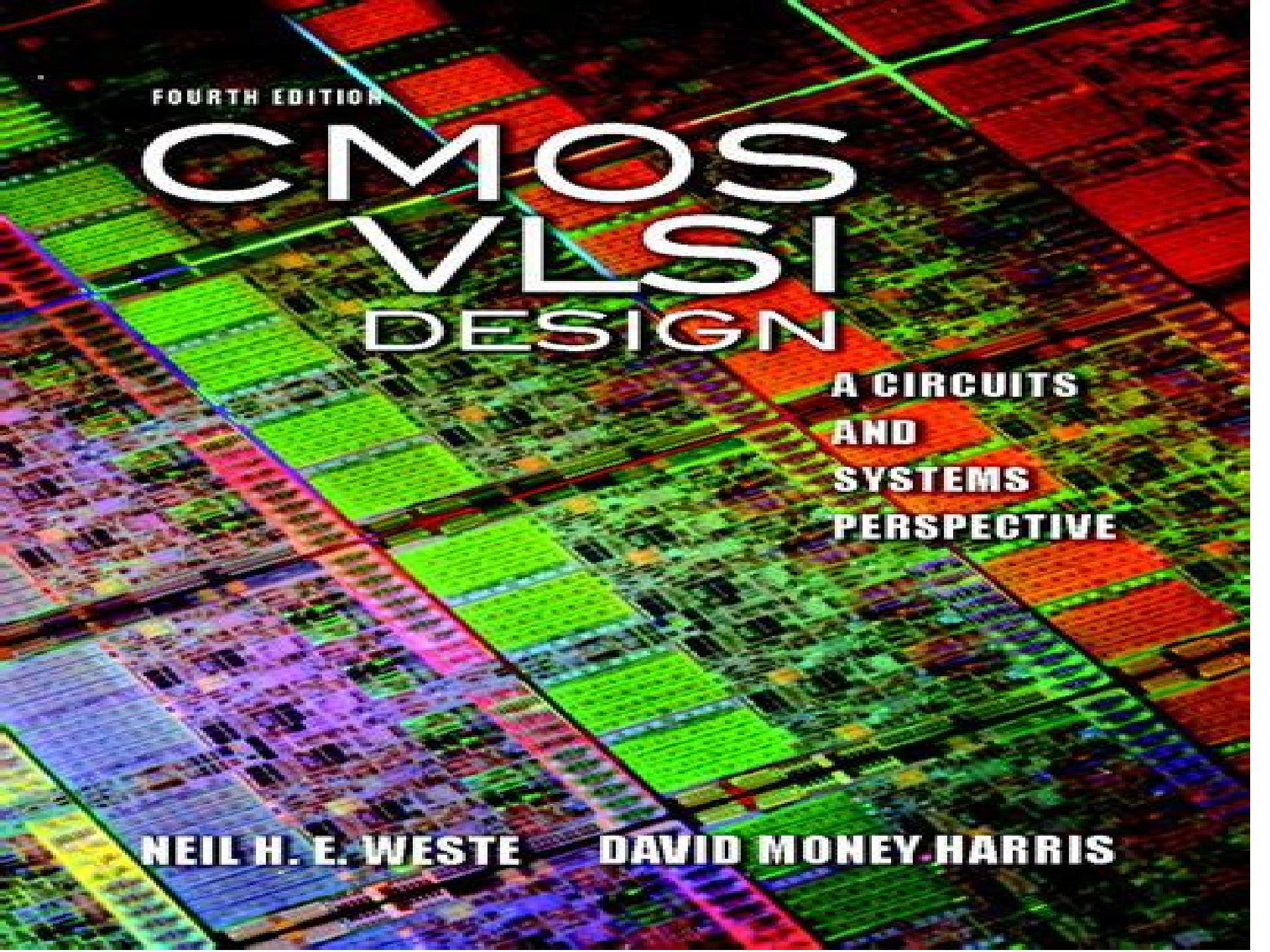


The background of the book cover is a high-resolution, false-color micrograph of a silicon microchip die. The die is rectangular and filled with a complex, repeating pattern of circuitry. Different functional blocks are highlighted in various colors: large rectangular areas in red, green, and blue, and a central horizontal strip in yellow. The overall appearance is that of a detailed, high-tech electronic component.

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Digital Integrated Circuit Design Hubert Kaeslin,2008-04-28 This practical tool independent

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Nano Interconnects Afreen Khursheed, Kavita Khare, 2021-12-23 This textbook comprehensively covers on chip interconnect dimension and application of carbon nanomaterials for modeling VLSI interconnect and buffer circuits It provides analysis of ultra low power high speed nano interconnects based on different facets such as material modeling circuit modeling and the adoption of repeater insertion strategies and measurement techniques It covers important topics including on chip interconnects interconnect modeling electrical impedance modeling of on chip interconnects modeling of repeater buffer and variability analysis Pedagogical features including solved problems and unsolved exercises are interspersed throughout the text for better understanding Aimed at senior undergraduate and graduate students in the field of electrical engineering electronics and communications engineering for courses on Advanced VLSI Interconnects Advanced VLSI Design VLSI Interconnects VLSI Design Automation and Techniques this book Provides comprehensive coverage of fundamental concepts related to nanotube transistors and interconnects Discusses properties and performance of practical nanotube devices and related applications Covers physical and electrical phenomena of carbon nanotubes as well as applications enabled by this nanotechnology Discusses the structure properties and characteristics of graphene based on chip interconnect Examines interconnect power and interconnect delay issues arising due to downscaling of device size

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Systems Design for Remote Healthcare Koushik Maharatna, Silvio Bonfiglio, 2013-11-13 This book provides a multidisciplinary overview of the design and implementation of systems for remote patient monitoring and healthcare Readers are guided step by step through the components of such a system and shown how they could be integrated in a coherent framework for deployment in practice The authors explain planning from subsystem design to complete integration and deployment given particular application constraints Readers will benefit from descriptions of the clinical requirements underpinning the entire application scenario physiological parameter sensing techniques information processing approaches and overall application dependent system integration Each chapter ends with a discussion of practical design challenges and two case studies are included to provide practical examples and design methods for two remote healthcare systems with different needs

Microelectronics, Communication Systems, Machine Learning and Internet of Things Vijay Nath, Jyotsna Kumar Mandal, 2022-07-11 This volume presents peer reviewed papers of the First International Conference on Microelectronics Communication Systems Machine Learning and the Internet of Things MCMI 2020 This book discusses recent trends in technology and advancement in microelectronics nano electronics VLSI design IC technologies wireless communications optical communications SoC advanced instrumentations signal processing internet of things machine learning image processing green energy hybrid vehicles weather forecasting cloud computing renewable energy CMOS sensors actuators RFID transducers real time embedded system sensor network and applications EDA design tools and techniques fuzzy logic artificial intelligence high performance computer architecture AI based robotics applications brain computer interface deep learning advanced operating systems supply chain development monitoring physical systems design ICT applications e farming information security etc It includes original papers based on theoretical practical experimental simulations development application measurement and testing The applications and solutions discussed in the book will serve as good reference material for young scholars researchers and academics

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Electronics and Communication Engineering Sikkim Manipal Institute of Technology Sikkim India during 3-4 June 2017. The book discusses latest research papers presented by researchers, engineers, academicians, and industry professionals. It also assists both novice and experienced scientists and developers to explore newer scopes, collect new ideas, and establish new cooperation between research groups and exchange ideas, information, techniques, and applications in the field of electronics, communication devices, and networking.

Advances in AI for Biomedical Instrumentation, Electronics and Computing Vibhav Sachan, Shahid Malik, Ruchita Gautam, Parvin Kumar, 2024-06-13. This book contains the proceedings of 5th International Conference on Advances in AI for Biomedical Instrumentation, Electronics and Computing (ICABEC 2023), which provided an international forum for the exchange of ideas among researchers, students, academicians, and practitioners. It presents original research papers on subjects of AI, Biomedical Communications, Computing Systems. Some interesting topics it covers are enhancing air quality prediction using machine learning, optimization of leakage power consumption using hybrid techniques, multi-robot path planning in complex industrial dynamic environment, enhancing prediction accuracy of earthquake using machine learning algorithms, and advanced machine learning models for accurate cancer diagnostics. Containing work presented by a diverse range of researchers, this book will be of interest to students and researchers in the fields of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering, Computer applications, and all interdisciplinary streams of Engineering Sciences.

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IEEE Circuits & Devices, 2005 **American Book Publishing Record**, 2004 *The British National Bibliography* Arthur James Wells, 2004

Integrated Circuit Design: Pearson New International Edition Neil Weste, David Harris, 2013-08-14. This title is a Pearson Global Edition. The editorial team at Pearson worked closely with educators around the world to include content relevant to students outside the United States. For both introductory and advanced courses in VLSI design, highly accessible to beginners yet offers unparalleled breadth and depth for more experienced readers. The Fourth Edition of this authoritative comprehensive textbook presents broad and in-depth coverage of the entire field of modern CMOS VLSI Design. The authors draw upon extensive industry and classroom experience to introduce today's most advanced and effective chip design practices. They present extensively updated coverage of every key element of VLSI design and illuminate the latest design challenges with 65 nm process examples. This book contains

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CMOS VLSI Design Neil H. E. Weste,2010

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