

# Engineering Physics S K Gupta

## **Advanced VLSI Design and Testability**

**Issues** Suman Lata Tripathi 2020-08-18 This book facilitates the VLSI-interested individuals with not only in-depth knowledge, but also the broad aspects of it by explaining its applications in different fields, including image processing and biomedical. The deep understanding of basic concepts gives you the power to develop a new application aspect, which is very well taken care of in this book by using simple language in explaining the concepts. In the VLSI world, the importance of hardware description languages cannot be ignored, as the designing of such dense and complex circuits is not possible without them. Both Verilog and VHDL languages are used here for designing. The current needs of high-performance integrated circuits (ICs) including low power devices and new emerging materials, which can play a very important role in achieving new functionalities, are the most interesting part of the book. The testing of VLSI circuits becomes more crucial than the designing of the circuits in this nanometer technology era. The role of fault simulation algorithms is very well explained, and its implementation using Verilog is the key aspect of this book. This book is well organized into 20 chapters. Chapter 1 emphasizes on uses of FPGA on various image processing and biomedical applications. Then, the descriptions enlighten the basic understanding of digital design from the perspective of HDL in Chapters 2–5. The performance enhancement with alternate material or geometry for silicon-based FET designs is focused in Chapters 6 and 7. Chapters 8 and 9 describe the study of bimolecular interactions with biosensing FETs. Chapters 10–13 deal with advanced FET structures available in various shapes, materials such as nanowire, HFET, and their comparison in terms of device performance metrics calculation. Chapters 14–18 describe different application-specific VLSI design techniques and challenges for analog and digital circuit designs. Chapter 19 explains the VLSI testability issues with the description of simulation and its categorization

into logic and fault simulation for test pattern generation using Verilog HDL. Chapter 20 deals with a secured VLSI design with hardware obfuscation by hiding the IC's structure and function, which makes it much more difficult to reverse engineer.

*Krishna's Environment and Ecology; for B. Tech Ist and IInd semester students of All Engineering Colleges affiliated to U.P. Technical University, Lucknow; As per revised syllabus, w.e.f. 2008-09*  
Universities Handbook 2010

**INIS Atomindex** 1985

**Fusion Energy Update** 1980

**Energy Research Abstracts** 1992

**World Guide to Universities -**

**Internationales Universitäts-Handbuch** 1976

*Mathematical Foundation for B.B.A.*

**Indian Books in Print** 2003

Integral Transforms

**The Indian National Bibliography** B. S.

Kesavan 2016-10

**Recycled Polymer Blends and Composites**

Hanafi Ismail 2023-09-23 This book presents an authoritative account of the potential of recycled polymer blends and composites such as recycled rubber, Polypropylene, Poly(Vinylidene Fluoride) (PVDF), polyhydroxybutyrate-3-valerate (PHBV), Polyethylene, and similar compounds, in polymer recycling industries. It highlights the latest research on fundamentals of recycled polymer blends and composites such as physical, chemical, mechanical and thermal properties and morphological studies. The book also provides a comprehensive state of the art review of recycling of polymer blends and composites for sustainability. Polymeric substances recycled from excess sludge in wastewater treatment plants, reinsertion of Poly(Vinylidene Fluoride) (PVDF), polyolefin and Polypropylene post-Industrial waste by primary recycling, as well as the recent development of biomass and COVID-19 plastic waste derived char filled natural starch biocomposite briquettes are also covered.

Publisher's Monthly 2006

**Indian National Bibliography** B. S. Kesavan 2016-12

## Krishna's Industrial Economics & Principles of Management

*The World of Learning 2001* Europa Publications 2000 First published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

## Records of the Geological Survey of India

Geological Survey of India 1991 Includes the Annual report of the Geological Survey of India, 1867-

## Condensation Polymerization in Tubular Reactors

Alexander K. Hipp 1995  
*Journal of the Institution of Electronics and Telecommunication Engineers* 1991

## Indian Science Abstracts 2010-05

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