

Digital Electronics and System

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Product Description

Digital Electronics and System Brief Write-up regarding the book This book will embark on a journey that will take every reader through the intricacies of digital logic, circuit analysis, and design while exploring the building blocks of digital systems, including logic gates, flip-flops, registers, and counters. The book is intended to help and guide the students and researchers to delve into the world of combinatorial and sequential logic, understanding how to analyse, design, and optimize digital circuits. It provides insights to the subject matter aligned with the latest model curriculum of the AICTE, followed by the concept of outcome-based education as per the New Education Policy (NEP)-2020. Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.



Table of Contents

Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

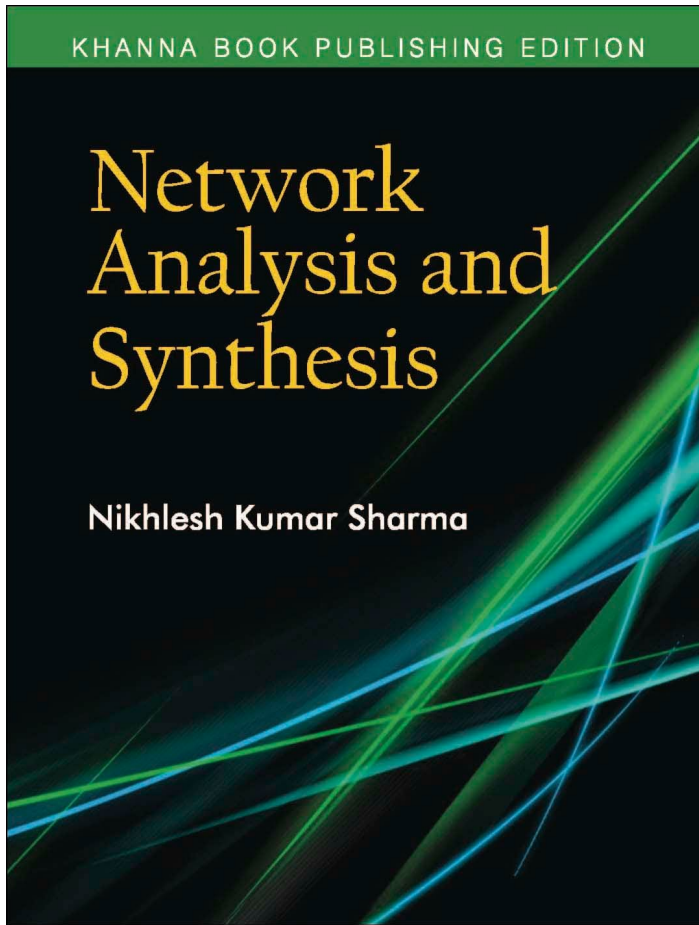
- FUNDAMENTALS: DIGITAL SYSTEMS
- LOGIC GATES AND BOOLEAN ALGEBRA
- Digital Logic Families
- Combinational Logic Circuits
- Sequential Circuit and System
- A/D And D/A Converters
- Semiconductor Memories
- Programmable Logic Device

Appendix CO and PO attainment table index

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Network Analysis and Synthesis

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Product Description

This book is written in a very lucid and simplified manner to explain the concepts of 'network analysis and synthesis'. It describes network terminology, various methods used to simplify networks, graph theory, various theorems, network functions, two port networks, positive real functions, network synthesis and design of passive filters and concepts of active filters.

Table of Contents

Chapter 1: Introduction. **Chapter 2:** Graph Theory. **Chapter 3:** Network Theorems. **Chapter 4:** Network Function. **Chapter 5:** Two Port Network. **Chapter 6:** Network Synthesis. **Chapter 7:** Filters. **Index**



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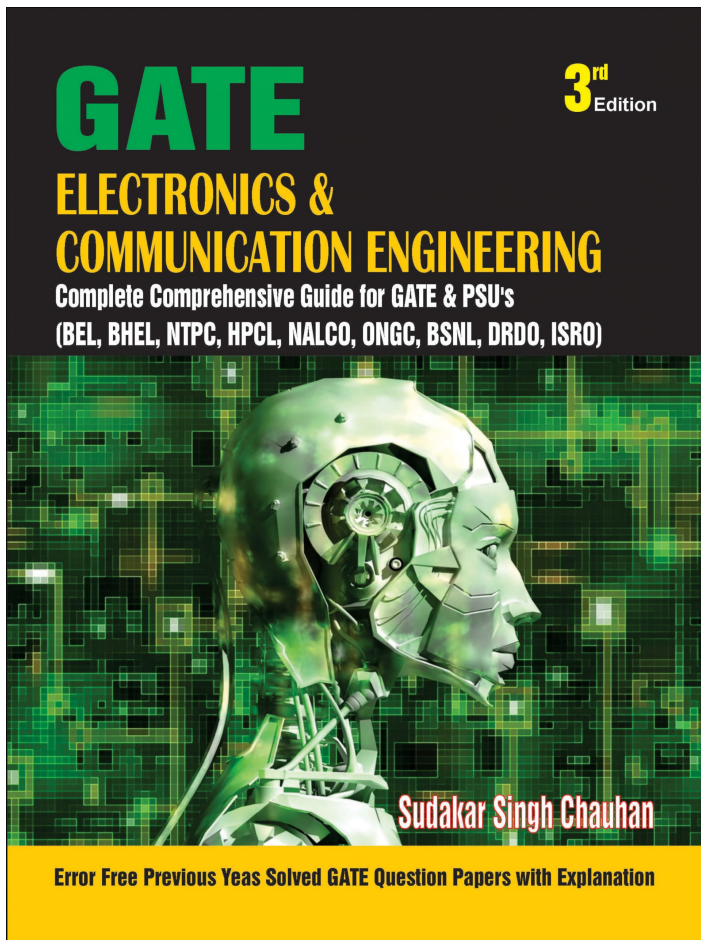
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GATE Electronics & Communication Engineering

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Product Description

This book contains topic wise solved 20 years paper of GATE in electronics & communication engineering and 5 fully solved new questions for GATE examination to provide to approach and relevancy for the GATE examination. Efforts have been made to provide error free answer & tricky solutions and explanations. It has been kept in consideration that the book should fulfill the need of GATE examination standard and syllabus.



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Table of Contents

Chapter 1: Network Theory. **Chapter 2:** Electronic Devices & Analog Circuits. **Chapter 3:** Digital Circuits. **Chapter 4:** Microprocessors. **Chapter 5:** Control System. **Chapter 6:** Signals & System. **Chapter 7:** Communication System. **Chapter 8:** Electromagnetic Field Theory. **Chapter 9:** Engineering Mathematics. **Chapter 10:** General Aptitude. **Chapter 11:** Gate 2013 Solved Paper. **Chapter 12:** Gate 2014 Solved Paper. **Chapter 13:** Gate 2015 Solved Paper. **Chapter 14:** Model Test Paper-1. **Chapter 15:** Model Test Paper-2. **Chapter 16:** Model Test Paper-3. **Chapter 17:** Model Test Paper-4. **Chapter 18:** Model Test Paper-5.

Author

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Environmental Studies

Author :	M.P. Poonia
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Product Description

Environmental degradation has been major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations. India has recently started realizing the importance of environmental and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to College/University level. This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science. ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals form concepts through impacts, mitigation auto management.



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Table of Contents

Chapter 1: Introduction - Multi-Disciplinary Nature of Environmental Studies. **Chapter 2:** The Earth and the Biosphere (The Earth Sciences). **Chapter 3:** Ecology. **Chapter 4:** Ecosystems. **Chapter 5:** Biodiversity and its Conservation. **Chapter 6:** Natural Resources. **Chapter 7:** Forest Resources. **Chapter 8:** Water Resources. **Chapter 9:** Mineral Resources. **Chapter 10:** Land (Soil) Resources. **Chapter 11:** Energy Resources. **Chapter 12:** Food Resources. **Chapter 13:** Environmental Pollution (Hazards and Control). **Chapter 14:** Waste Management. **Chapter 15:** Disaster Management. **Chapter 16:** Social Issues. **Chapter 17:** Environmental Challenges. **Chapter 18:** Human Population and the Environment. **Chapter 19:** Resettlement and Rehabilitation (R&R). **Chapter 20:** Environmental Protection. **Chapter 21:** Environmental Legislations. **Chapter 22:** Environmental Impact Assessment (EIA). **Chapter 23:** Environmental Management and Environmental Management Plan. **Chapter 24:** Field Work (Project Work). **Exercise Question (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MC, True-False).**



Authors

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company. **S.C. Sharma** after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects. **Prof. Santosh Kumar**, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

