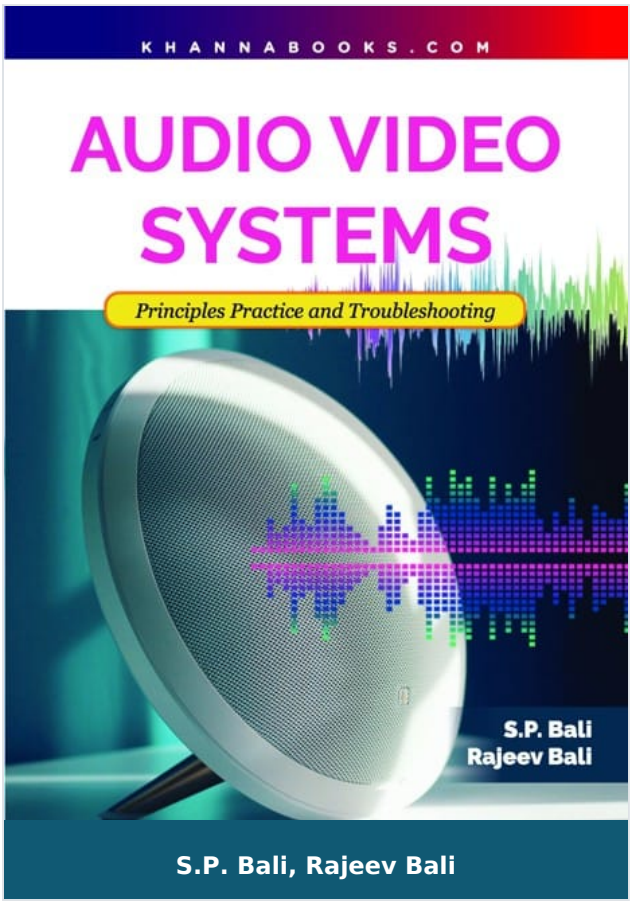


S.P. Bali, Rajeev Bali

Audio Video Systems

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Product Description

Comprehensive coverage of audio systems. Illustrated method of treatment-Illustration intended to bring home an idea and to be build understanding step by step. Operation, tuning and setting up procedures of components are explained in detail. Ample conventional questions, objective type and fill in the blanks are included. confirms to syllabus of various universities.

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- Monochrome and Colour Television Controls
- Video Tape Recording and Reproduction
- Video Disc Recording and Playback
- Theatre Sound System
- Video Systems
- The Philosophy of Troubleshooting
- Preventive Maintenaqnce
- Acoustical Measurements
- Performance Tests
- Troubleshooting Procedures
- Index

Author

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S.P. Bali Surinder Pal Bali has a long association, of over four decades with the field of electronics. He has worked in different capacities as a technician (repairing radio and line equipment) as an inspector (carrying out "in inspection and out inspection" of radio and line equipment) and as a lecturer (teaching diploma course in MCEME, Secunderabad). He is a Professional trainer and has been conductiong job oriented courses on "audio video" appliances. As a free lance technical journalist he has contributed articles to technical journals and authored about ten books.

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Rajeev Bali is a Graduate Engineer with BTNL and has co-authored elements of electronic Investment.

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Lekshmi S. Raveendran, Minu Susan Jacob, Selvapriya

Artificial Intelligence Search Methods & Reasoning

Author :	Lekshmi S. Raveendran, Minu Susan Jacob, Selvapriya
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Product Description

Artificial Intelligence Search Methods and Reasoning serves as an essential guide to the foundational principles and core algorithmic strategies that power modern intelligent systems. This book uniquely blends the basic cognitive science behind AI—exploring concepts of intelligence, memory, computation, and learning—with the practical, rigorous algorithms used for problem-solving in complex environments. Its core theme is to demystify how intelligent agents perceive, reason, and act by systematically searching for optimal solutions.

The primary purpose of this resource is to equip learners with a deep, practical understanding of both uninformed (e.g., BFS, DFS) and informed search techniques (e.g., A*, Greedy Best-First Search), adversarial search, and constraint satisfaction problems (CSPs). The text further extends into crucial domains like knowledge representation using logical agents (propositional and first-order logic) and probabilistic reasoning (Bayesian networks, Hidden Markov Models). It culminates in a detailed examination of various learning algorithms, including supervised, unsupervised, reinforcement, and ensemble methods.

The target audience for this book includes undergraduate and graduate students in Computer Science, Artificial Intelligence, and Electrical Engineering, as well as researchers and professionals seeking a robust, algorithm-focused foundation in AI theory and implementation. It offers practical value through numerous case studies, such as the N-Queens Problem, the Wumpus World, and the application of Nature-Inspired Computation like Ant Colony Optimization for the Traveling Salesman Problem. It is a vital resource for building intelligent systems capable of autonomous decision-making.

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• Exhaustive Search Algorithms: Offers comprehensive coverage of Uninformed Search methods (BFS, DFS, IDDFS, UCS, Bidirectional Search) & advanced Informed Search strategies, including heuristics & A*.

• Logic and Reasoning: Systematically explores the role of knowledge and its representation using propositional and First-Order Logic, enabling agents to perform complex inference via Forward and Backward Chaining.

• Probabilistic Approaches: Dedicated unit on planning and reasoning under uncertainty, covering essential topics like Bayes' Rule, Bayesian Networks, Hidden Markov Models, and Kalman Filters.

• Constraint Solving & Games: Detailed breakdown of Constraint Satisfaction Problems (CSPs), including a case study on the N-Queens problem, alongside an exploration of Adversarial Search strategies for competitive environments.

• Modern Learning Paradigms: Includes extensive chapters on learning intelligence, covering Supervised, Unsupervised, and Ensemble Learning techniques (e.g., Boosting/AdaBoost), vital for contemporary AI applications.

• Real-World Case Studies: Features practical application examples like solving the Wumpus World problem and a special unit on Nature-Inspired Computation, demonstrating Ant Colony Optimization for the Traveling Salesman Problem (TSP).

• Intelligent Agent Design: Focuses on the Rational Agent approach, detailing the PEAS framework (Performance, Environment, Actuators, Sensors) and exploring agent rationality, learning, and autonomy.

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- Approaches Behind Planning and Reasoning
- Learning an Communication

Author

Lekshmi S. Raveendran

Lekshmi S. Raveendran

Minu Susan Jacob

Minu Susan Jacob

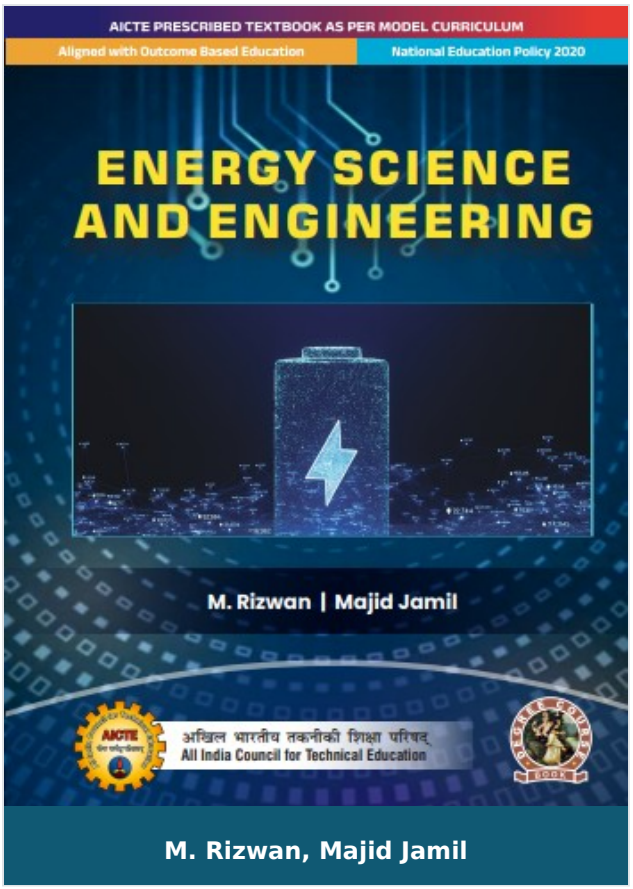
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Energy Science and Engineering

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Product Description

Energy Science and Engineering

This book has been designed for second-year students of undergraduate students in the engineering program. It will prove to be a valuable source for practicing engineers and faculty members. The book is divided into seven units and provides all the necessary information on an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field with an emphasis on alternative energy sources, their technology and applications.

This book will provide an opportunity to explore society’s present energy needs and future energy demands, examine conventional energy sources and systems including fossil fuels and nuclear energy. More focus of this book is on renewable energy sources, sustainability, and the environment. Clean energy technologies and their importance in sustainable development, carbon footprint, energy and environment, trade and research policy, future energy use that can be influenced by the economics, linkage between economic and environmental outcomes are discussed by including the latest available statistical data. This book also covers topics on civil project development for creating energy infrastructure. Concepts of green building and green architecture, energy auditing and energy enterprises with some practical examples are presented in easy language to understand the fundamental concepts. It is important to note that in all the units, dynamic QR codes are provided to collect additional knowledge on the specific topic.

Salient Features:

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- 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.
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- Energy and Environment
- Civil Engineering Projects Connected with Energy Sources
- Building Structure for Nuclear Power Plants
- Engineering for Energy Conservation (Green Building and Green Architecture)
- Engineering for Energy Conservation (Energy Auditing, Efficiency & Energy Conservation)
- Unit Summary
- Short and Long Answer Type Questions
- References and Suggested Readings

Author

M. Rizwan

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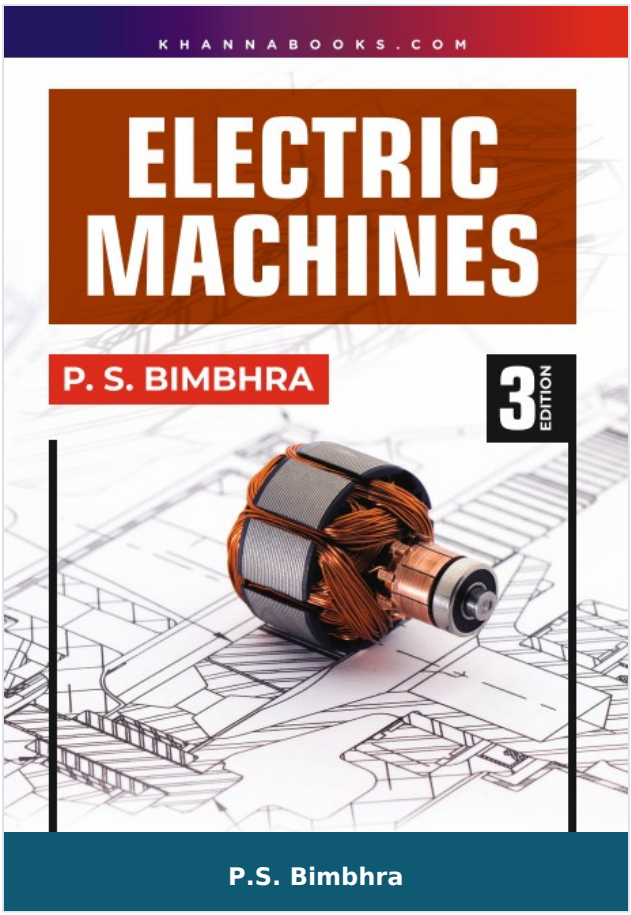
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Electric Machines

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Product Description

This book is suitable as a textbook for undergraduate courses in electric machines. Subject matter in each chapter in so developed from basic principles that an average student can understand it easily. Since the text is written in simple language, this book would be found suitable even for diploma students and AMIE candidates. GATE and UPSC candidates would also find the book quite useful.

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- Electromechanical Energy Conversion Principles
- Basic Concepts of Rotating Electric Machines
- D.C. Machines
- Synchronous Machines
- Three Phase Induction Motors
- Single Phase Motors
- Special Machines

Author

P.S. Bimbhra

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

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T. G. Sitharam, Mahesh Verma, Yogi Kochhar

AI Shakti, AI for Bharat (Coloured Addition)

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Product Description

AI Shakti, AI for Bharat (Colour)

AI Shakti presents a bold and pragmatic wireframe for nations seeking to integrate artificial intelligence seamlessly into education, enterprise, governance, and daily life. The authors bring together the rare convergence of academic depth, institutional experience, and visionary imagination.

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- Tier 2: Applied AI Skills For Employability
- Tier 3: Msmes: The Backbone of India
- Tier 4: Deep-Tech AI Telent Pipeline
- Implementing The 5-Tier System at Scale
- Tools, Templates and Worksheets
- The Future of India with Alforall
- The Vault of Knowledge
- When the Mind Melts

Author

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T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical

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Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

Mahesh Verma

Prof. T G Sitharam : - Professor sitharam, chairman, AICTE, a distinguished educator & policy influencer, has long championed the modernization of India’s knowledge architecture. Elite member of Top 2% scientists in the world by Stanford Ranking. Prof. (Dr) Mahesh Verm a: - professor Verma, Padma Shri, Vice Chancellor at Guru Gobind Singh Indraprastha University. A brilliant & rare Doctor with 4 fellowships from the Royal College of surgeons: Ireland, Wales, Scotland and England Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

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Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.



Harsh Bothra

Set of Two Books : Hacking & Mastering Hacking

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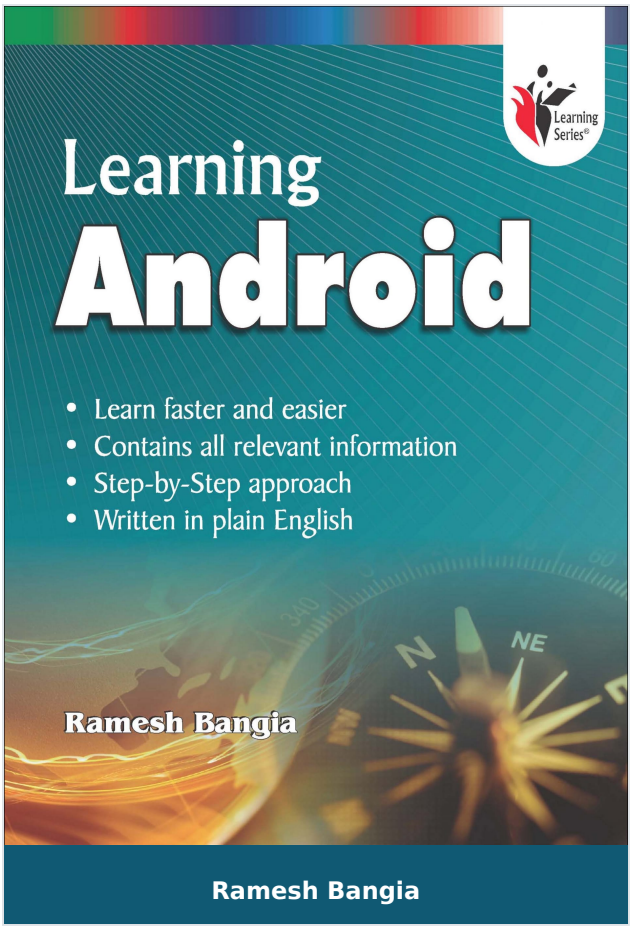
Harsh Bothra

Harsh Bothra is an offensive Cyber Security expert who has been working in this domain for about a decade. He started in this domain during high school and graduated with a computer science and engineering degree. He published the first version of his book, ‘Hacking: Be a Hacker with Ethics,” in 2016 and his second book in 2019. He holds an engineering degree in Computer Science and Engineering from Amity University Rajasthan. He has worked with different organizations in various roles, such as security consultants, senior security engineers, product security engineers, and triage analysts. Harsh specializes in penetration testing and offensive security in domains such as web applications, APIs, Mobile applications, infrastructure, Clod, and Container security. He is deeply interested in writing and has constantly contributed to the security community through various blogs and articles. He is also a seasoned speaker and has given multiple talks at various reputed security conferences. He also ran various learning activities and challenges like Learn365, Security Explained and Security Stories.

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Learning Android

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Country Origin :	India

Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct, and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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Author

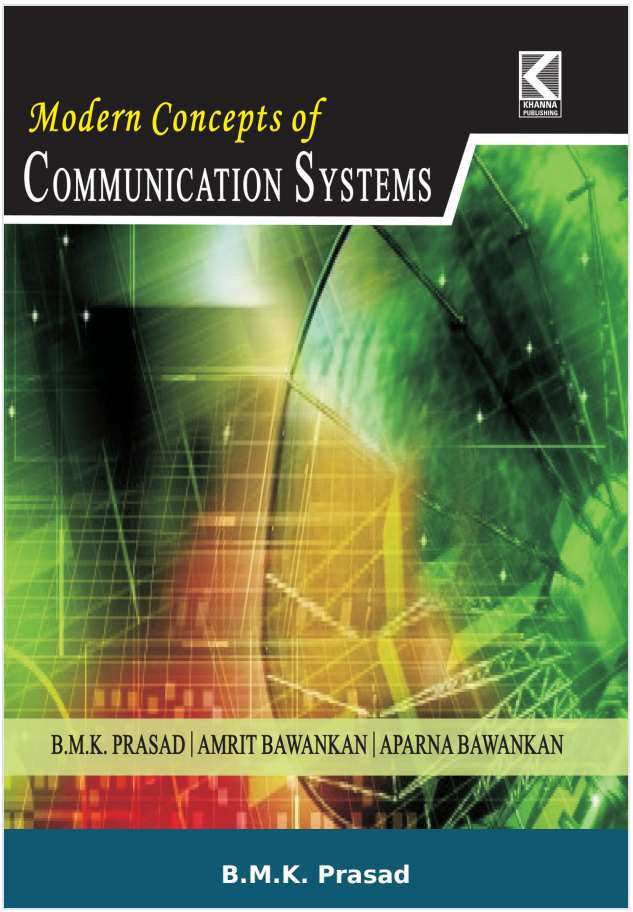
Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Modern Concepts of Communication Systems

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Product Description

The Proposed book Modern Concepts of Communication Systems is considered as one of most respected and authentic texts in the field of communication systems and engineering. Its profound mathematical treatment, clarity of concepts rich set of assignment problems and of course, novelty in approach defined in many way how analog or digital communication are taught in engineering college. The book is covering almost all the parts of syllabus of M.D. University, Rohtak, Gautam, Buddha University, Lucknow, Mahamaya University, Noida, old UPT University K.U. Kurukshetra etc.

Communication systems are a core subject for undergraduate course in Electronics and Communications, and Computer Engineering. It is also offered as a special subject for undergraduate courses in Electronical and Instrumentation Engineering, and for postgraduate course in Physics, Electronics and Computer Science. This book is primarily intended to serve as a textbook for undergraduate course in Electronics and Communication Engineering.

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- Communication Systems
- Amplitude Modulation
- Angle Modulation
- Signal Analysis
- Noise
- Pulse Modulation
- Digital Modulation
- Index

Author

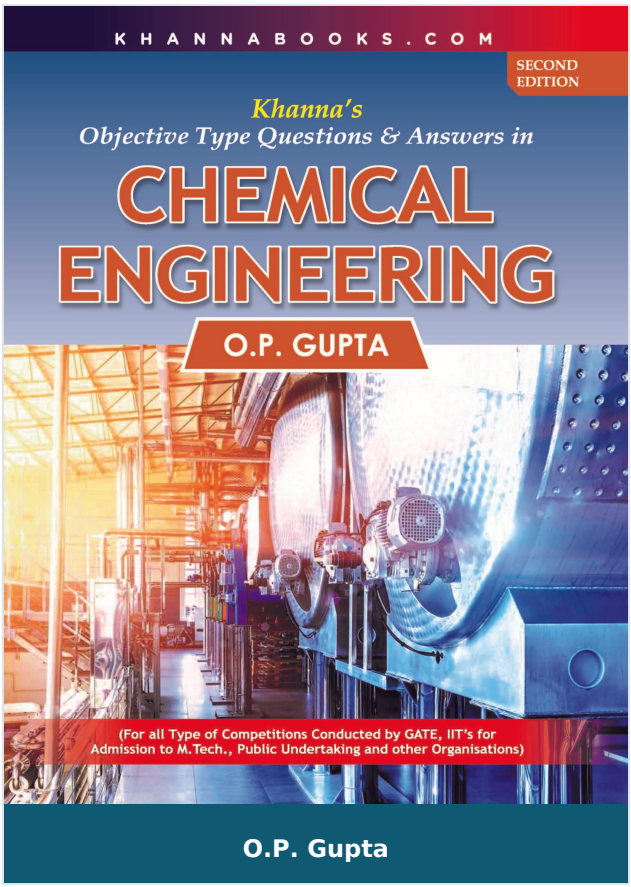
B.M.K. Prasad

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Khanna's Objective Type Questions & Answers in Chemical Engineering

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Product Description

This book is meant for diploma students of chemical engineering and petroleum engineering both for their academic program as well as for competitive examinations. This book contains 18 chapters covering title entire syllabus of diploma course in chemical engineering and petrochemical engineering. This book is its present form has been designed to serve as an encyclopedia of chemical engineering so as to be ready reckoner apart from being useful for all types or written tests and interviews faced by chemical engineering and petrochemical engineering are same as that of chemical engineering diploma students. So, this book will be-equally useful for diploma in petrochemical engineering students.

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- Chemical Engineering Thermodynamics
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- Fuels and Combustion
- Materials of Construction
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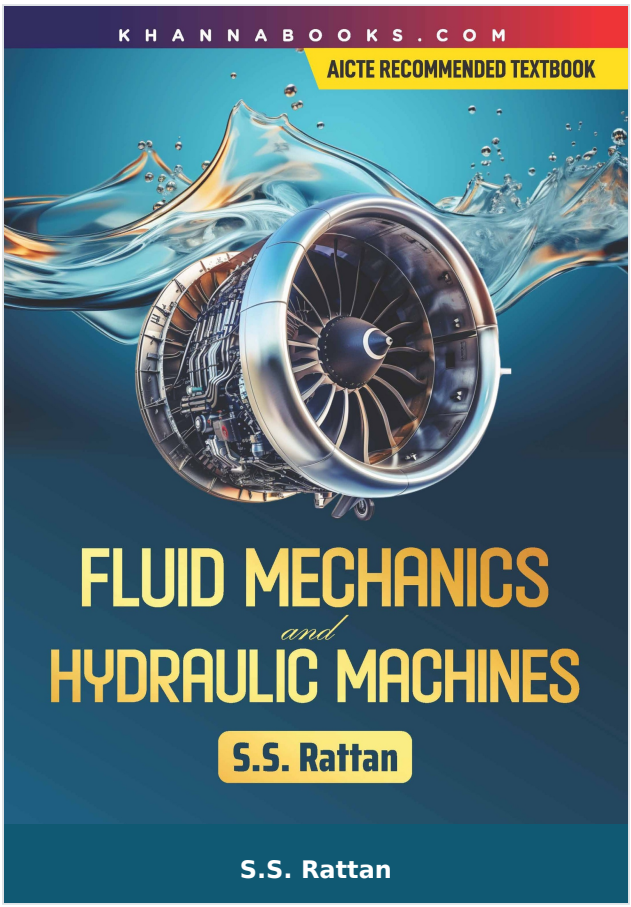
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Fluid Mechanics and Hydraulic Machines

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- Dimensional Analysis
- Viscous flow
- Turbulent Flow
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- Flow in Open Channels
- Boundary Layer Theory
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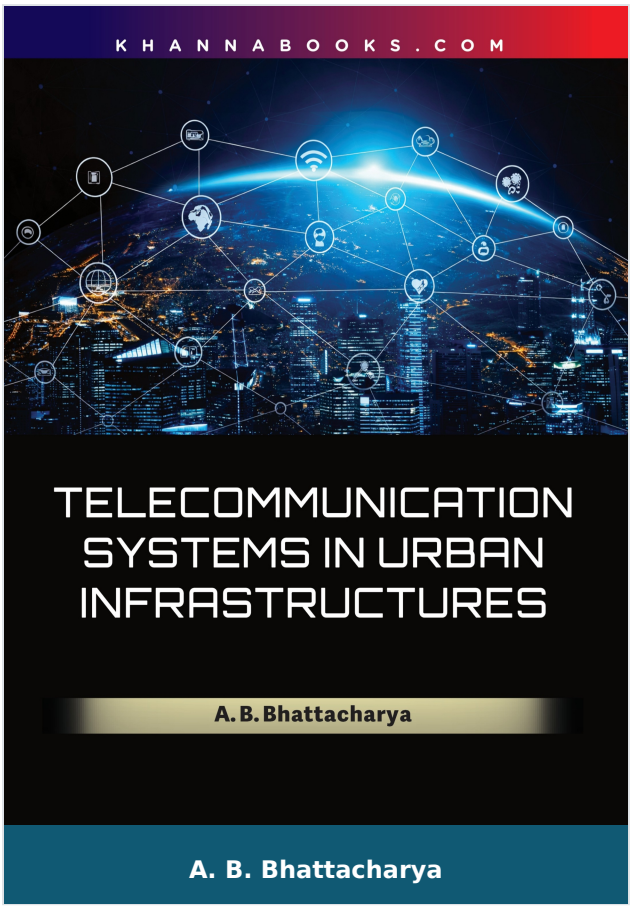
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Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences

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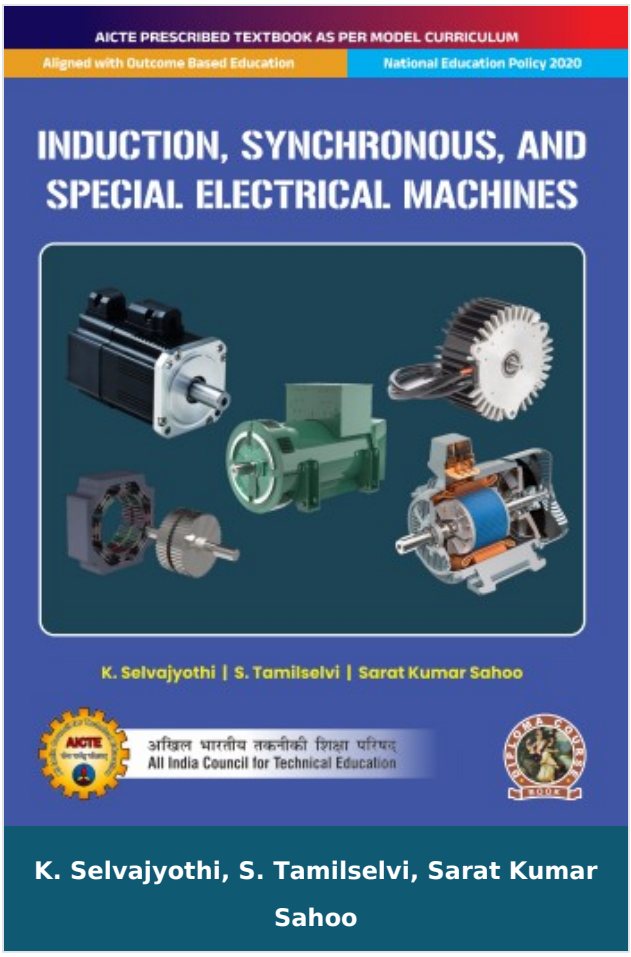
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division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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Induction, Synchronous, and Special Electrical Machines

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Induction, Synchronous, and Special Electrical Machines

This book, “induction, Synchronous, and special Electrical Machines” is crafted with a primary focus on the comprehensive understanding of electrical machines, catering to the needs of diploma students in electrical and electronics engineering. Whether you are a student embarking on your academic journey, an instructor guiding aspiring minds, or a practitioner in the field, this book aims to be your reliable companion.

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- 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.
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