

Introduction to Python Programming

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Product Description

The educational objective of this textbook is an Introduction to Python Programming, computer application development using python. This book serves two purpose in general. First, it serves as a text book in a college-level introductory to Python Programming subject. Second, the book is a broad introduction to the python concepts, libraries and tools essential for application development. Learning python has become a prerequisite for computer science graduates because, python has powerful software libraries that make complex tasks simple. The motivation behind writing this book is for the ease of learning Python and the ease of using its libraries in application development. The textbook's pedagogical approach is to introduce Python programming concepts, Python programming in a easy and understanding manner. The approach followed in this book is more akin to learning a



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Chapter 4: Execution Control Structures.

Chapter 5: Container and Randomness.

Chapter 6: Namespaces.

Chapter 7: Object Oriented Programming in Python.

Chapter 8: Graphical User Interfaces.

Chapter 9: Recursion

Chapter 10: Web Programming Using Python.

Chapter 11: Database and Data Processing in Python.

Authors

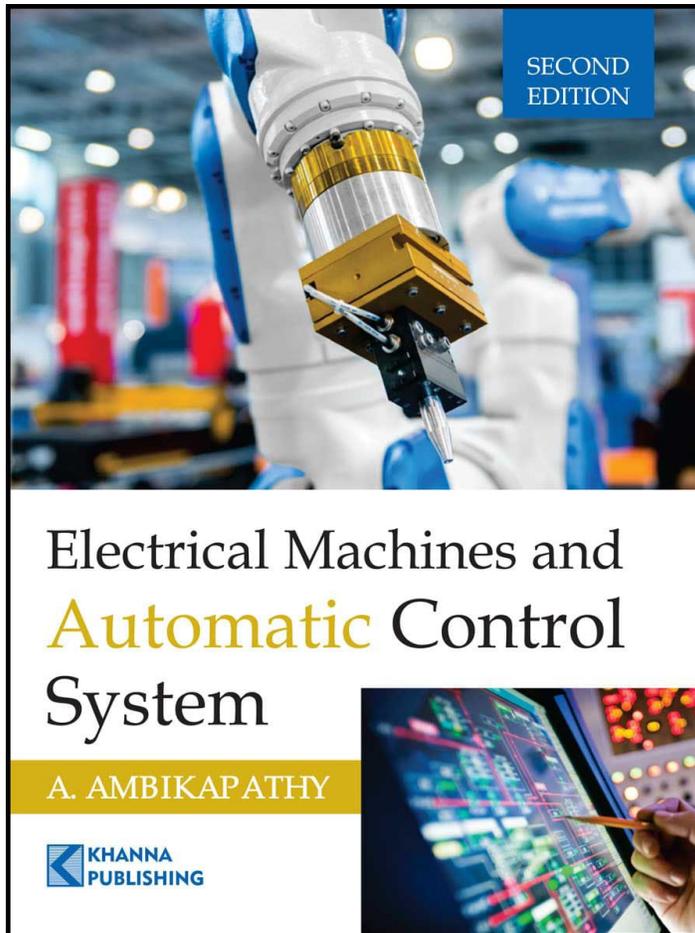
Dr. Venkatesh is currently working as Assistance Professor in the Department of Computer Science and Engineering, University Visvesvaraya College of Engineering, Bangalore University, Bangalore-560001. Obtained his Bachelor of Engineering, Master of Technology degree and PhD in Computer Science and Engineering in the year 2000,2004 and 2018 respectively. His research interest include Wireless Sensor Network, Ad-hoc Network, Data Science and Web Recommendation System. **Nagaraju Y** is currently a Research Scholar in the Department of Computer Science and Engineering, University Visvesvaraya College of Engineering , Bangalore University, Bangalore-56001. Obtained his Bachelor of Engineering degree in Information Technology in the year 2015, and 2017 respectively. He is also qualified if UGC NET and KSET exams. His research interest including Deep Learning, Computer Vision and Artificial Intelligence.



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Electrical Machines & Automatic Control System

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Product Description

A textbook on "Electrical machines and Automatic control System" has been written for the undergraduate students of mechanical department. The material of this book is very useful to the students for understating the concepts as well as from examination point of view. A number of examples are solved in detailed manner in every unit so that the students can practice more on numerical part. Every unit contains exercise problems with answers which help the students to prepare for their exams. The content of this book is explained in a simple language so that understating will be much easy. I will be thankful to the students and teachers who pinpoint the errors and suggestions for the improvement of the book.



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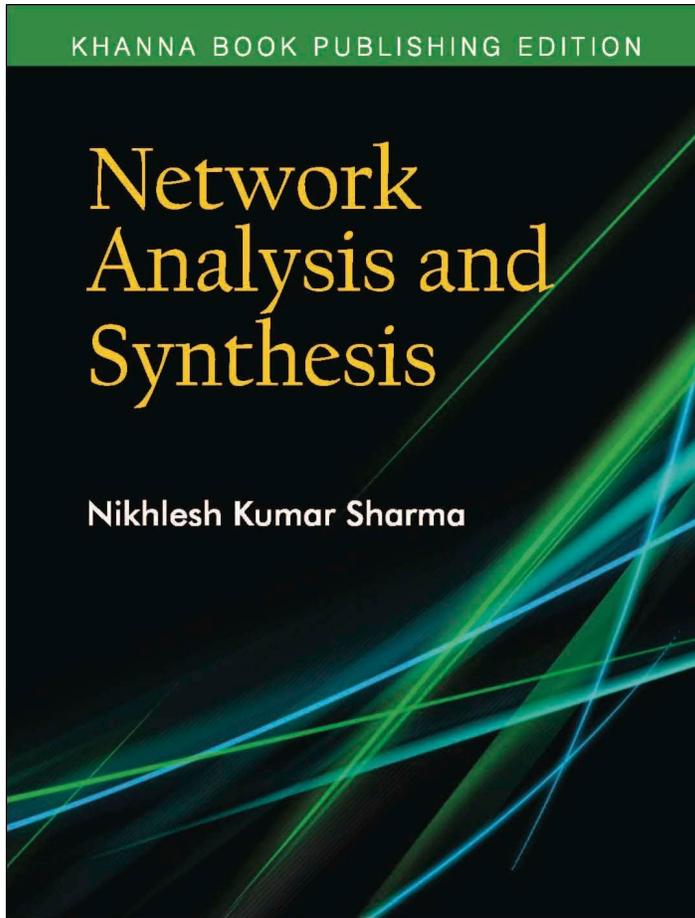
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Chapter 1: Single Phase Transformer. **Chapter 2:** Three Phase Induction Motor. **Chapter 3:** Control System.
Chapter 4: Time Response Analysis. **Chapter 5:** Root Locus Technique.

Author

A. Ambikapathy currently working as an assistant professor in " Galgotia Colege of Engineering and Technology " holds M. Tech degree. She has presented five papers in national level conferences. She worked under three different universities and having ten years of teaching experience.





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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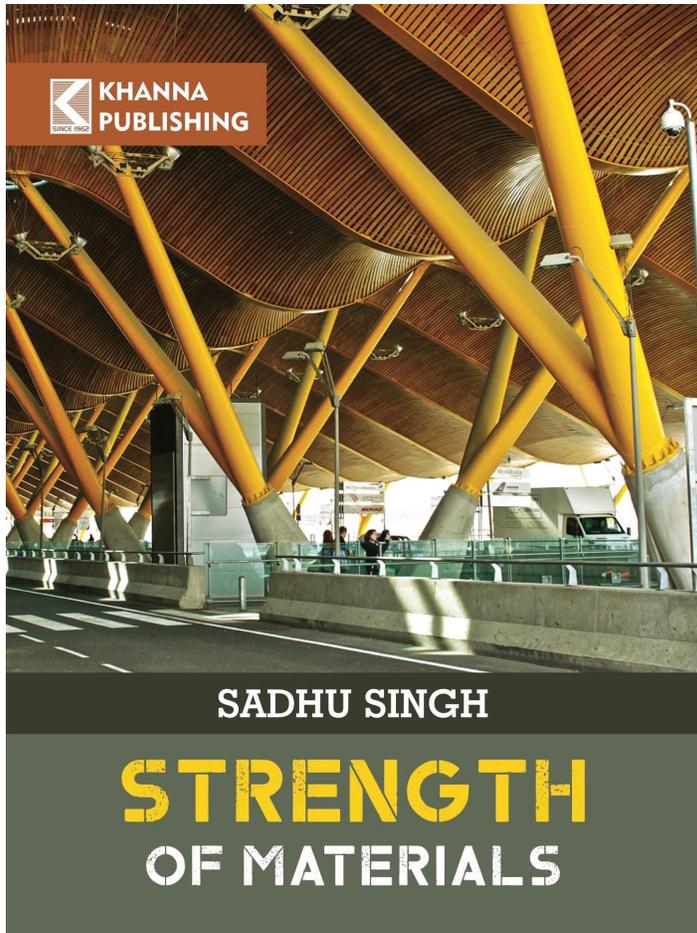
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Strength of Materials

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Product Description

This book is a textbook for the B.E./B. Tech. students of UP technical University, Lucknow and Uttarakhand Technical University, Dehradun. The book has been written as per the new syllabus of these Universities. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises.



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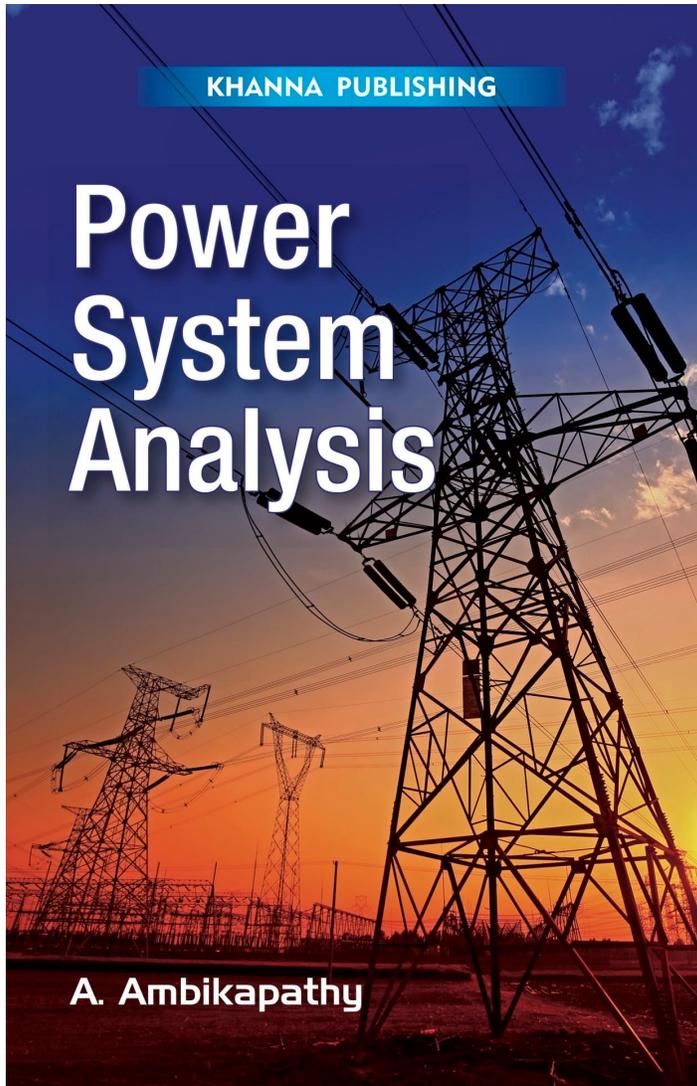
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Author

Sadhu Singh Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.





Power System Analysis

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Product Description

The textbook on "Power System Analysis" has been written for undergraduate students of electrical engineering (EE) electrical and electronics engineering(EEE) departments. This material which is presented in this book will be very useful to the students for understandings well as from examination point of view. A number of solved and unsolved problems (with answer) have been included in each chapter. Short question and answers are provide for every chapter so that the students will get benefit of it. The mathematical details and qualitative discussion has been followed throughout the book. The author will welcome criticisms of the text and will acknowledge comments pertaining to the text and suggestions for the improvement of this book will be most welcome.



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Author

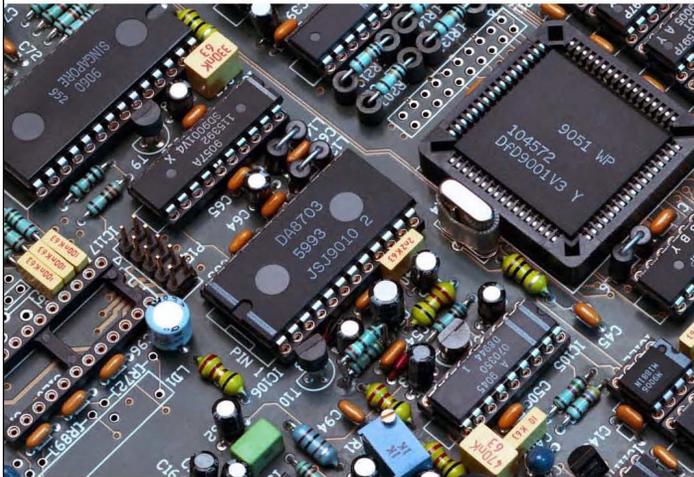
A. AMBIKAPATHY A. Ambikapathy currently working as an assistant professor in " Galgotia Colege of Engineering and Technology " holds M. Tech degree. She has presented five papers in national level conferences. She worked under three different universities and having ten years of teaching experience.



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LINEAR INTEGRATED CIRCUITS

Rishabh Anand



Linear Integrated Circuits

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Product Description

Comprehensive coverage of the syllabus as prescribed by major technical Universities in India. Special emphasis on the applications of linear integrated circuits. Very lucid and simplified approach to understand the subject. Review question are included at the end of each chapter. These exercises allow students additional practice with each of the topics covered in the book. Moving from the unknown in a logical manner. numerous examples and illustrations are given that help and make it easy to learn some of the more complicated concepts.



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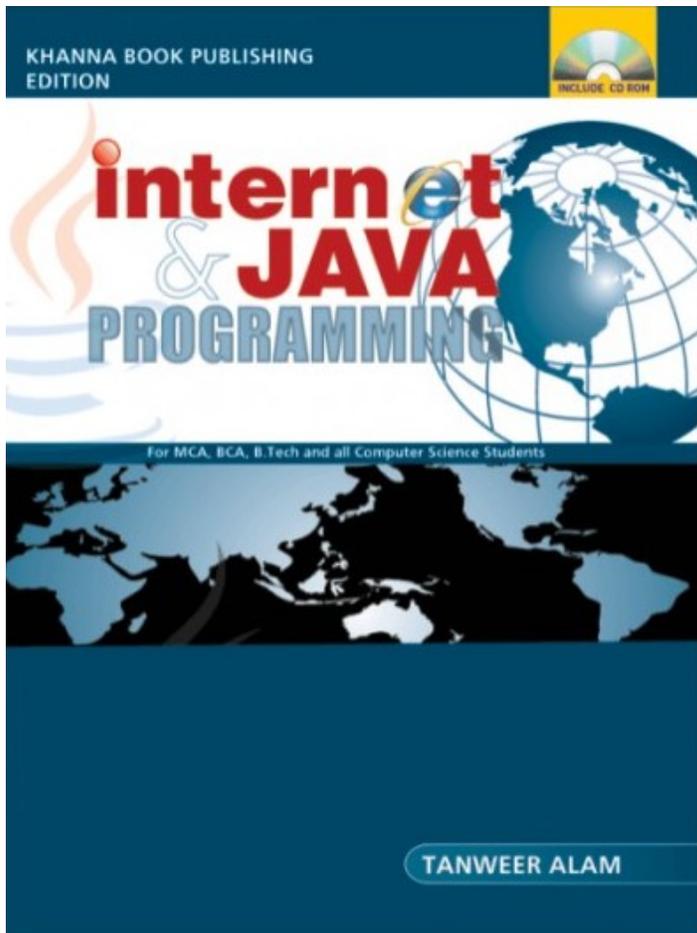
Chapter 1: Integrated Circuit Fabrication. **Chapter 2:** Differential Amplifiers. **Chapter 3:** Operational Amplifier And Its Characteristics. **Chapter 4:** Operational Amplifier Applications. **Chapter 5:** Active Filters. **Chapter 6:** Phase Locked Loop. **Chapter 7:** D-A And A-D Converters. **Chapter 8:** Waveform Generators. **Chapter 9:** 555 Timer.

Bibliography

Author

Rishabh Anand Rishabh Anand received his Bachelor's degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M.Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M.Tech. (ECE/CSE/IT), BCA, MCA, and other courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL® Foundation Certificate in IT Service Management, PRINCE2® Practitioner Certification - Project Management, ScrumMaster® (CSM®), Certified Six Sigma White Belt (CSSWB™), Lean Six Sigma White Belt Certified (LSSWBC™) and Certified Six Sigma Green Belt™ (CSSGB™). The author delivers lectures as Visiting Faculty (Assistant Professor) in the Global Institute of Technology and Management, Farrukh Nagar, Gurgaon.





Internet & JAVA PROGRAMMING

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Product Description

This book will be of great help to programmers who are already familiar with programming in C,C++ or VB. They can upgrade their skills through this book and achieve great height in the world of computer programming. Java definitely has a future in research and teaching, as well as system development. The objects of this book is to promote that future by spreading the use of the language as widely as possible. This book is divided into a number of chapters. each chapter is a self contained area. The chapters in this book are around in a sequence order. The programs presented in this book are just to understand the application. The objective of this book is the serve as a textbook for the subject " Internet and Java Programming" in various course viz. MCA/B. Tech/BCA/M. Sc./B. Sc. etc. The objective of this book is the serve as a textbook for the subject "Internet and Java programming" in various courses vz. MCA, B. Tech., M.Sc., BCA and B. Sc. programmers can upgrade their skills through this book and achieve great height in the world of computer programming. The programs presented in this book are just to understand the application. Includes coverage of Servlets, JSP, RMI, Java Beans, EJB, Applets, AWT, JDBC and Swings etc. The book is self contained. The chapters is this book are arranged in a sequence order. Hundred of fully tested programs with output. Sort questions with answers are just to understand the topics. Moving from C++ to Java differentiates the features of both C++ and Java. Readers can understand the gap between Java and C++. Include Mini projects like calculator, Hotel Management System and Pay Roll Mgt. System.



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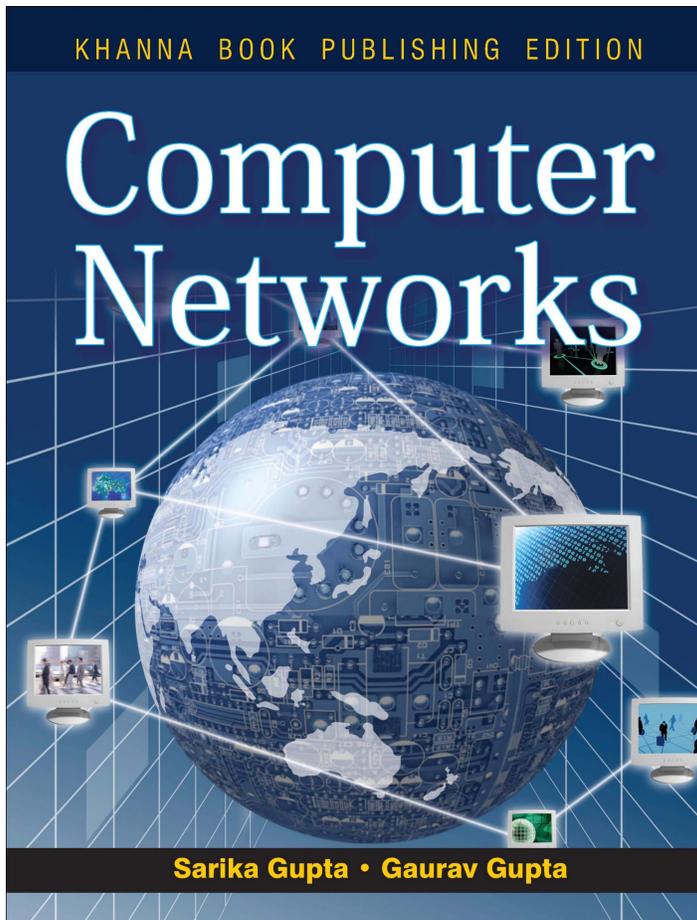
- Chapter 1:** Internet.
- Chapter 2:** Java: Getting Start.
- Chapter 3:** Java Language Basics.
- Chapter 4:** Control Flow.
- Chapter 5:** Arrays.
- Chapter 6:** Object Orientation: An Introduction.
- Chapter 7:** Introducing Classes.
- Chapter 8:** Inheritance.
- Chapter 9:** Packages.
- Chapter 10:** String Handling.
- Chapter 11:** Exception Handling in Java.
- Chapter 12:** Applet Programming.
- Chapter 13:** File Handling.
- Chapter 14:** Multithreading.
- Chapter 15:** Multimedia in Applet.
- Chapter 16:** Socket Programming.
- Chapter 17:** Abstract Window Toolkit.
- Chapter 18:** Event Handling.
- Chapter 19:** Graphics Programming.
- Chapter 20:** Swing Programming.
- Chapter 21:** JDBC.
- Chapter 22:** Java Beans.
- Chapter 23:** Remote Method Invocation.
- Chapter 24:** Java Servlet.
- Chapter 25:** Java Server Pages.
- Chapter 26:** Moving from C++ to Java.
- Chapter 27:** Application of Java.



Author

Tanweer Alam Tanweer Alam has an experience of more than seven years in the Teaching field. Currently, He is working at MCA Department, Meerut Institute of Engineering and Technology, Meerut. He has got his MCA Degree in 2003 from UP Technical University, Lucknow, UP. He has got his Master Degree in Mathematics in 2000 from CCS University, Meerut, UP. He has got his MPhil Degree in Computer science in 2007 from MKU, Madurai. He is also MTech in IT and currently, He is doing PhD in Computer Science & Engineering. He presents more than thirty research papers in various reputed national/international Conferences/Journal.





Computer Networks

Author :	Gaurav Gupta
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Product Description

This text book is designed to meet the requirements of the students of postgraduate and undergraduate engineering students of various branches. The book offers the concise coverage of the computer network like Network Structure and Architecture, different protocols, switching methods, network layer, Transport Layers, Application layers. This book comprises of various realistic pictures in each of the chapter to give the real feel of the subject to the reader for better understanding.



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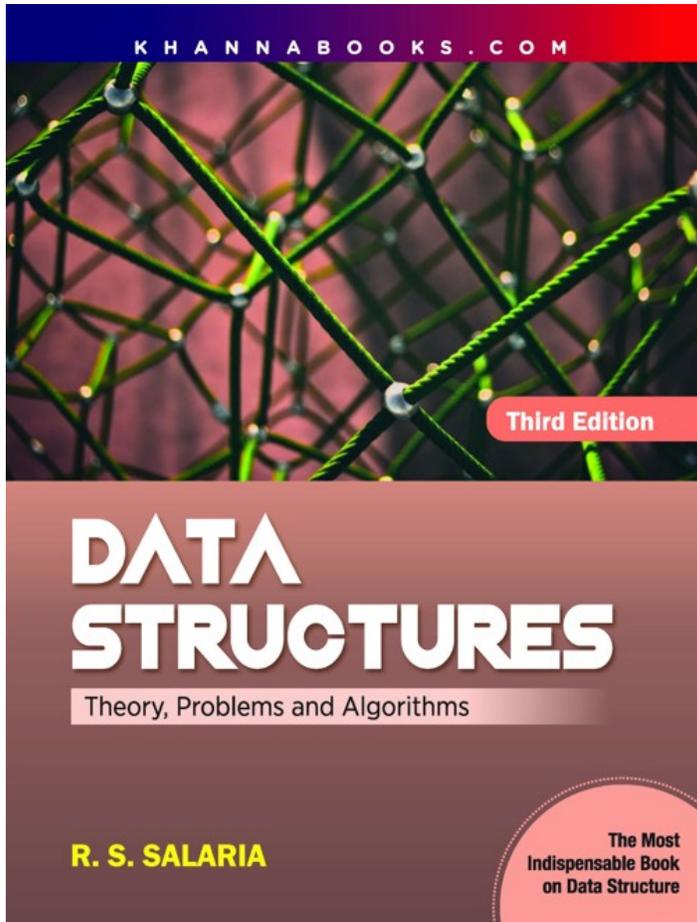
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Chapter 1: Introduction to Networks. **Chapter 2:** Physical Layer and Transmission Media. **Chapter 3:** Data Link Layer. **Chapter 4:** Multiple Access Control Sublayer. **Chapter 5:** Introduction of Network Layers. **Chapter 6:** Introduction of Network Layers. **Chapter 7:** Transport Layer. **Chapter 8:** Cryptography. **Chapter 9:** Application Layer. **Chapter 10:** World Wide Web (WWW). **Programs Interview Questions Model Papers Question Bank Question Papers Index**

Authors

Gaurav Gupta Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc. **Sarika Gupta** Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes Ad hoc Network, Java, Object Oriented System and Soft Computing etc.





Data Structures

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Product Description

This book is specially designed to serve as textbook for the student of CA, BSc IT, MCA BE/B. Tech (CSE/IT) MSc (CS/IT) of all Indian Universities. The subject of data structures is of prime importance for the students of computer science and IT it is of practical nature and requires thorough understanding of basics and concepts of the subject before punting them into practice. This book will help the Student to meet all their basic requirements.



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Chapter 1: Introduction to Data Structures.

Chapter 2: Introduction to Algorithms.

Chapter 3: Arrays.

Chapter 4: Linked Lists.

Chapter 5: Stacks.

Chapter 6: Queues.

Chapter 7: Trees.

Chapter 8: Heaps.

Chapter 9: Graphs.

Chapter 10: Hashing and Hash Tables.

Chapter 11: Sorting Algorithms.

Author

R.S. Salaria Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.





Expert Data Structures with C++

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Product Description

This text on data structures is for the beginners and expert programmers, who wish to enjoy the salient features of the subject in depth. The book covers all the popular data structures through emphasizing on the efficient algorithm development and implementing them in C++ with latest language features. Moreover, everything has been explained through self-explanatory figures. Fundamental techniques are developed in depth and are fully supported with program examples, Strong emphasis on exercises and examples throughout the text.



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Chapter 1: Introduction. **Chapter 2:** Recursion. **Chapter 3:** String Manipulation Pattern Matching. **Chapter 4:** Arrays. **Chapter 5:** Linked List. **Chapter 6:** Stacks & Queues. **Chapter 7:** Trees. **Chapter 8:** Graphs. **Chapter 9:** Sorting & Searching.

Author

R.B. Patel

Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc.



AICTE Recommended Textbook as per Model Curriculum -2018

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AN INTEGRATED APPROACH TO

COMPUTER NETWORKS

**Bhavneet Sidhu**

An Integrated Approach to Computer Networks

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Product Description

Computer networks have become essential part of modern computing. As a designer, developer, programmer, or user it is absolutely necessary to have a good understanding of the concepts and techniques involved in these modern networking technologies, This book treats the Network as a system composed of inter related building blocks, giving students and professionals the best possible conceptual foundation for better understanding of current networking technologies as well as the further technologies of the industries.

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Table of Contents

Chapter 1: Introduction to Computer Networks. **Chapter 2:** Network Topologies. **Chapter 3:** Reference Models-OSI and TCP/IP. **Chapter 4:**Transmission Media. **Chapter 5:** Electromagnetic Signals and Modulation. **Chapter 6:** Switching Principles. **Chapter 7:** Multiplexing Techniques. **Chapter 8:** Telephone System and ISDN Services. **Chapter 9:** Data Link Layer. **Chapter 10:** Multiple Access Protocols. **Chapter 11:** Introduction to LAN and MAN Protocols. **Chapter 12:** Network Layer. **Chapter 13:** Internetworking Devices. **Chapter 14:** Transport Layer. **Chapter 15:** Session and Presentation Layer. **Chapter 16:** Application Layer. **Chapter 17:** Network Security. **Chapter 18:** Some Network Standards.

Author

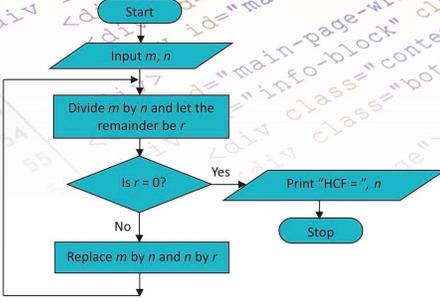
Bhavneet Sidhu Mrs. Bhavneet Sidhu is presently working as a Lecturer of Computer Science Department of computer science and Technology at Guru Nanak Dev University, Amritsar (Punjab). She obtained her MCA degree from Guru Nanak Dev University, Amritsar in 2001. She has over four years of teaching experience. She has been teaching computer Networks for the last three years and during this time she developed keen interest in networking and was inspired to write a book on this field. She has written this book keeping in view the interest and the needs of the students.



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परिणाम आधारित शिक्षणाची सुसंगत

राष्ट्रीय शैक्षणिक धोरण 2020



आर. एस. सलारिया

समस्या सोडवण्यासाठी प्रोग्रामिंग

प्रयोगशाळा नियमपुस्तिकेसह



Programming for Problem Solving (with Lab Manual)

Author :	R.S. Salaria
ISBN 13 :	978-93-55380-21-0
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E-ISBN 13 :	978-93-55380-21-0
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Pages :	368
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Publisher :	Khanna Publishing House
Categories :	AICTE Prescribed Textbooks , Ebooks , Marathi Books
Condition Type :	New
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Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems. Salient Features: 1. Simple and lucid language that enables students to grasp the subject. 2. Demonstrates the elegant programming style. 3. 165+ ready to run programs for reference and to illustrate the program development process. 4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely. 5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts. 6. 90+ Programming problems to provide an opportunity to harness programming skills. Programming for Problem Solving (with Lab Manual) (Marathi).



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Author

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.



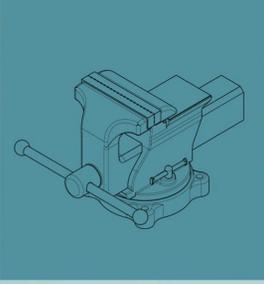
AICTE विहित पाठ्यपुस्तक आदर्श अभ्यास क्रमानुसार

परिणाम आधारित शिक्षणाशी सुसंगत

राष्ट्रीय शैक्षणिक धोरण 2020

कार्यशाळा / उत्पादन पद्धती

प्रयोगशाळा नियमपुस्तिकेसह



वीरणा डी. केंचक्कनवर

Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
ISBN 13 :	978-93-55380-24-1
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Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is followed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: 1. Manufacturing Methods. 2. CNC Machining, Additive manufacturing. 3. Fitting operations & power tools. 4. Electrical & Electronic. 5. Carpentry. 6. Plastic moulding, glass cutting. 7. Metal casting. 8. Welding (arc welding & gas welding), brazing. 9. Laboratory experiments and models. 10. Appendices. 11. References.



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Chapter 2: CNC Machining, Additive manufacturing, Fitting operations & power tools.

Chapter 3: Electrical & Electronic.

Chapter 4: Carpentry, Plastic molding, glass cutting.

Chapter 5: Metal casting, welding (arc welding & gas welding), brazing.

Part- B: Workshop Practice Laboratory

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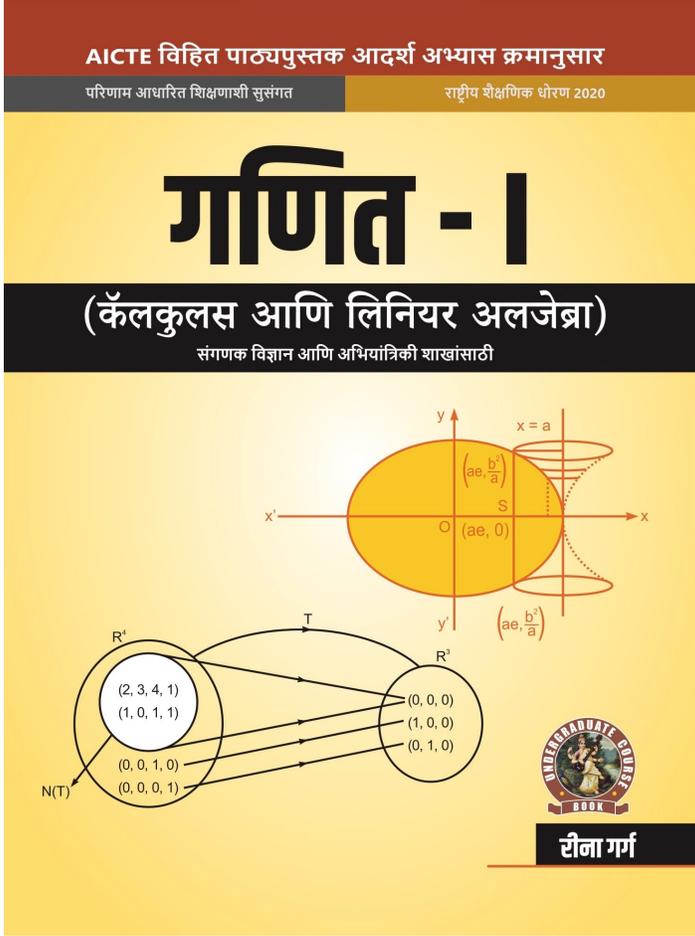
Veerana D.K.



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Mathematics-I (Calculus and Linear Algebra) For Computer Science Engineering Branches

Author :	Reena Garg
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Condition Type :	New
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Product Description

Calculus and Linear Algebra cover all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions and universities of the country. It serves as both text book /or useful reference work. It contains 5 units which included calculus, Algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that help in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE. This book is in student's friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of questions in this book have been designed to access the reader's understanding of the subject professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book: 1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy. 2. Emphasis on the applications of concepts and theorems. 3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner. 4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student's capability, to increase the feeling of team work. 5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible. 6. Some standard problems with sufficient hints have been included in each exercise to gauge the student's visual understanding and for grasp the theory.

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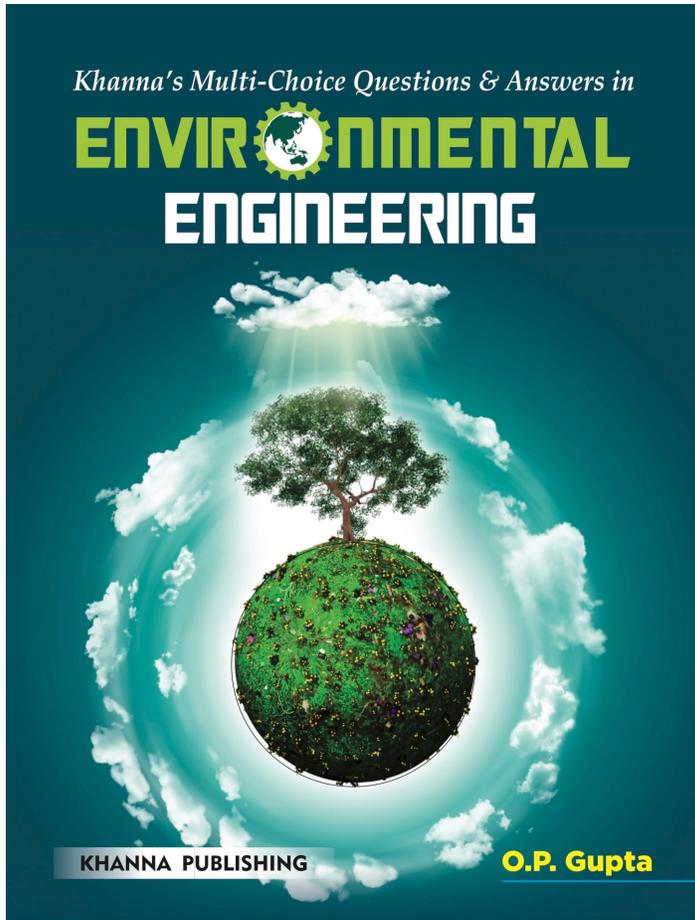
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About Author

Reena Garg Dr. Reena Garg, M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.





Khanna's Multi-Choice Questions & Answers in Environmental Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-91505-07-3
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Pages :	582
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Condition Type :	New
Country Origin :	India

Product Description

This book covers the various topics of environmental engineering in the form of MCQ and Short Q&A; and is useful for degree, postgraduate & diploma courses in engineering, AMIE, AMIIM & AMIICHE examination. Subject matters has been presented in simple, lucid & easy to understand language and Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & Professional bodies examination papers. Latest and updated information/data/statistics pertaining to the subject matter has been included.



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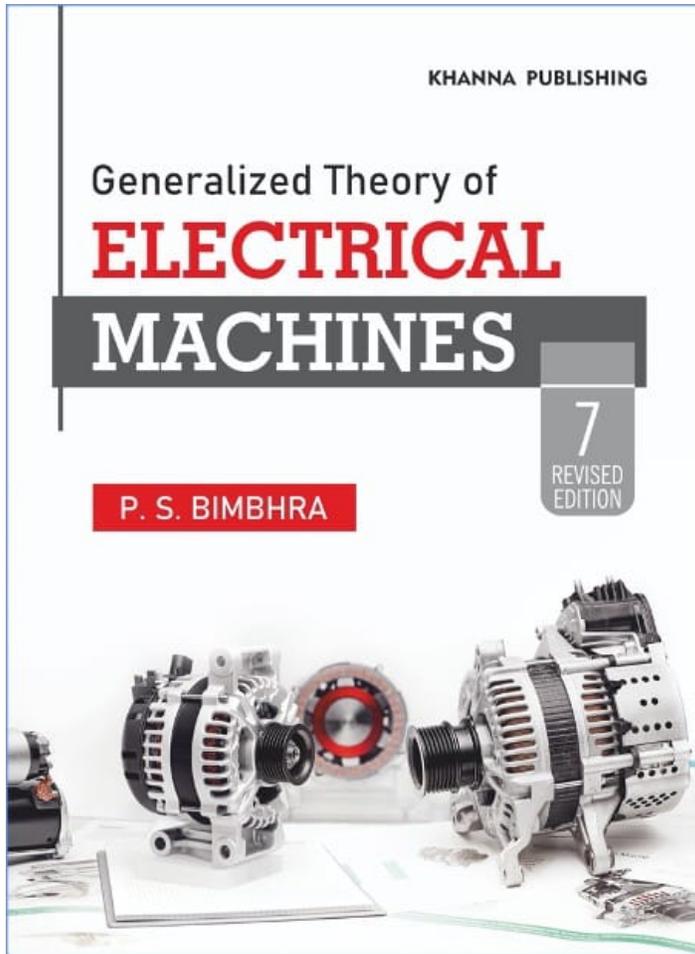
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Author

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.





Generalized Theory of Electrical Machines

Author :	P.S. Bimbhra
ISBN 13 :	978-93-91505-08-0
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M.R.P :	Rs 495.00
Categories :	Electrical, Electronics & Communication Engineering
Condition Type :	New
Country Origin :	India

Product Description

This textbook “Generalized Theory of Electrical Machines” is based on the latest syllabus of the Universities and Educational Institutes. In this edition, some materials of the book has been rewritten so as to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added and problems material with answers, at the end of each chapter, has been considerably enlarged. Salient Features: 1. Elements of Generalized Theory 2. Linear Transformations in Machines 3. D.C. Machines 4. Polyphase Synchronous Machines 5. Polyphase Induction Machines 6. Single Phase Motors 7. A.C. Commutator Machines 8. Transformers 9. Special Machines 10. Appendices 11. References



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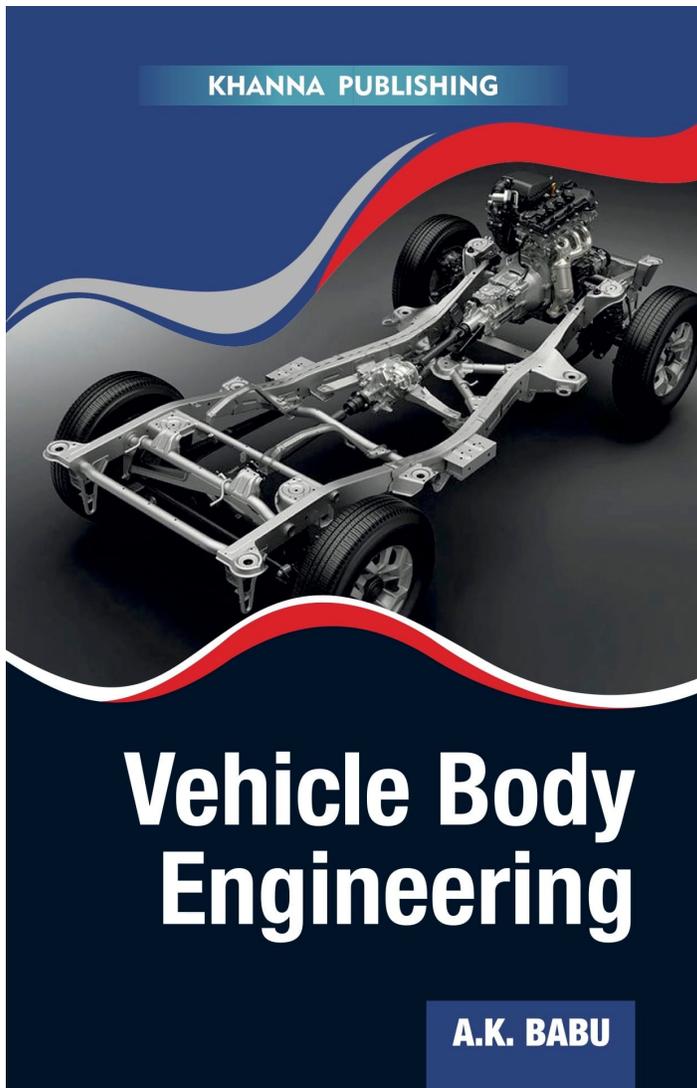
Chapter 1: ELEMENTS OF GENERALIZED THEORY. **Chapter 2:** LINER TRANSFORMATIONS IN MACHINES. **Chapter 3:** D.C. MACHINES. **Chapter 4:** POLYPHASE SYNCHRONOUS MACHINES. **Chapter 5:** POLYPHASE INDUCTION MACHINES. **Chapter 6:** SINGLE PHASE MOTORS. **Chapter 7:** A.C. COMMUTATOR MACHINES. **Chapter 8:** TRANSFORMERS. **Chapter 9:** SPECIAL MACHINES. **APPENDIX INDEX REFERENCES**

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.





Vehicle Body Engineering

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Condition Type :	New
Country Origin :	India

Product Description

This book is designed for students undertaking a subject 'Vehicle Body Engineering/Auto Body Engineering' in the undergraduate and postgraduate programme of Automobile Engineering as per the latest revised syllabus of all Indian Universities. The book Provides a clear explanation of vehicle body parts and systems with unique illustrations. Each chapter takes the reader systematically through the details of each type of vehicle body such as car body, bus body, commercial vehicle body, etc. Key topics are emphasized and are reinforced by numerous illustrations. The book should also be a valuable source of information and reference.-



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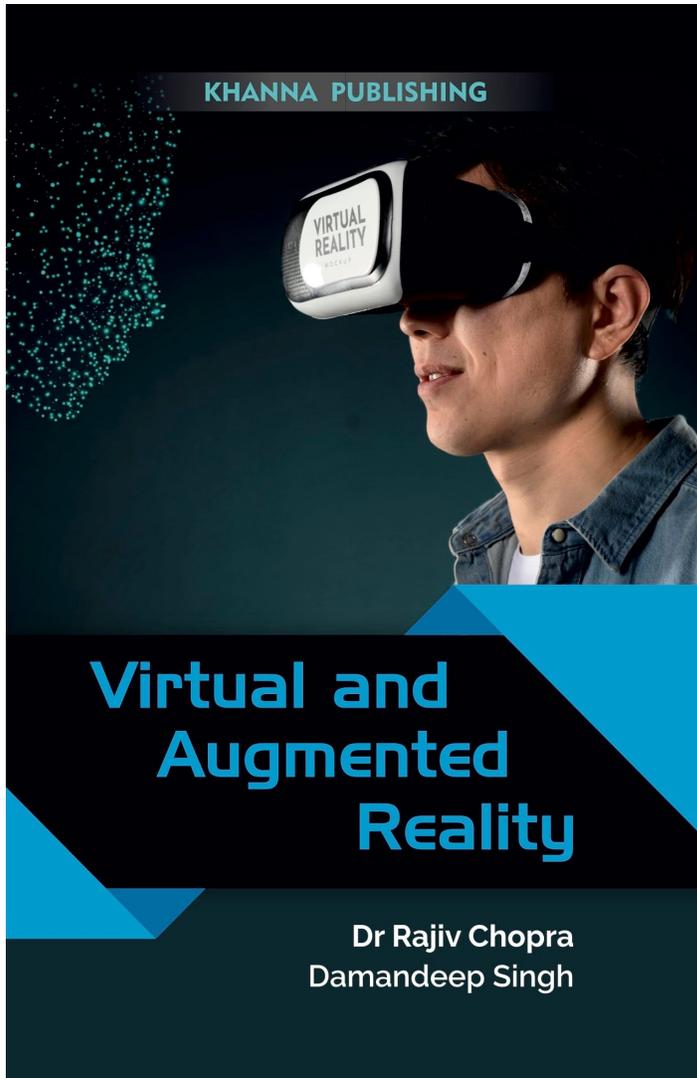
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Author

A.K. BABU A.K. BABU is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K. BABU, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K. BABU has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.





Virtual and Augmented Reality

Author :	Rajiv Chopra
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ISBN 10 :	93-90779-00-6
E-ISBN 13 :	978-93-90779-00-0
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Pages :	188
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Publisher :	Khanna Publishing House
M.R.P :	Rs 199.00
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Condition Type :	New
Country Origin :	India

Product Description

Tapping the full power of virtual and augmented reality need not be very difficult. This book on Virtual and Augmented Reality is written according to the students who have learned computer graphics and multimedia but want to take their skills to the next level. VR and AR book demonstrates techniques that allow you to analyze how virtual reality is covering almost all aspects of our life. the increasing penetration of VR and AR gives rise to some new strategic queries. Using VR, many companies have satisfied their customers to 95% World giants like GE, Mayo Clinic and the US Navy, are using VR and AR to improve productivity, quality and training. By concatenating the benefits of humans and machines, AR will dramatically increase the value creation.



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Chapter 4: VR Hardware and Software.

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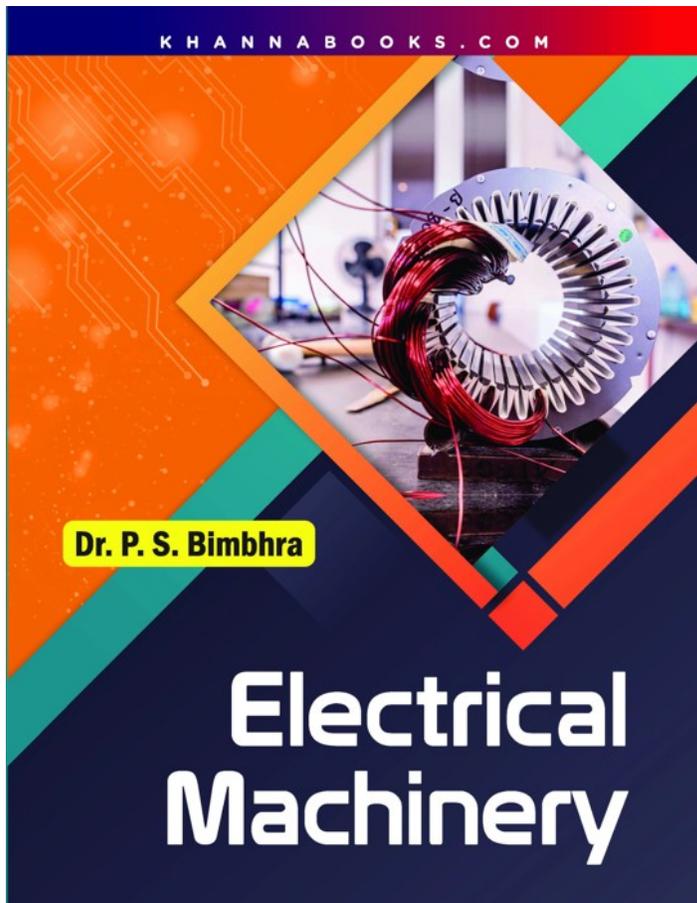
Rajiv Chopra Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali VidyaPith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit, for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.



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Electrical Machinery

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Product Description

This thoroughly revised and updated edition presents a rigorous and comprehensive treatment of transformers and more common types of rotating electrical machine types. Each chapter begins with rudimentary concepts and is so developed that an average student can easily comprehend it. The salient features of this book are :In-depth coverage of transformers, dc machines, 3-phase synchronous, and induction machines. Highlights that electrical machines operate on the same basic principles. Devotes a chapter on electromechanical-energy conversion principles and another on dc/ac machine windings. Drive aspects and applications are discussed for each machine type. Clarity of presentation is enhanced by illustrative figures and examples selected from question-papers of important Universities, IAS, IES, and GATE. Includes numerous problems, conceptual questions and objective-type questions (with answers) to help the reader master the basic concepts. This edition includes a chapter on “basic principles of electrical machines.” All these features contribute towards making this book an ideal text for undergraduate students of degree classes. Practicing engineers, through self-study, will also find this volume useful to them.



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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.





Warm Loving Medication

Author :	Akshat Srivastava
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Categories :	Fiction Books
Condition Type :	New
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Product Description

Following the suicide of an acquaintance, Abeer was suffering from a cliché case of doomsday syndrome. In a life where all everyone could bring into his life was either medication or addictions. In this beautiful city with shit stained sidewalks and shit swinging elitism, life felt directionless until a small incident makes him realise he may need the same help he has been trying to extend. While shuffling through multiple therapists, A chance meeting with a woman leads to something far more than he ever imagined. The woman in question was Meera. The woman on the contrary was a being of never-ending optimism in a society full of nihilists. Would This encounter help Abeer answer some questions which were left unanswered?



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Author

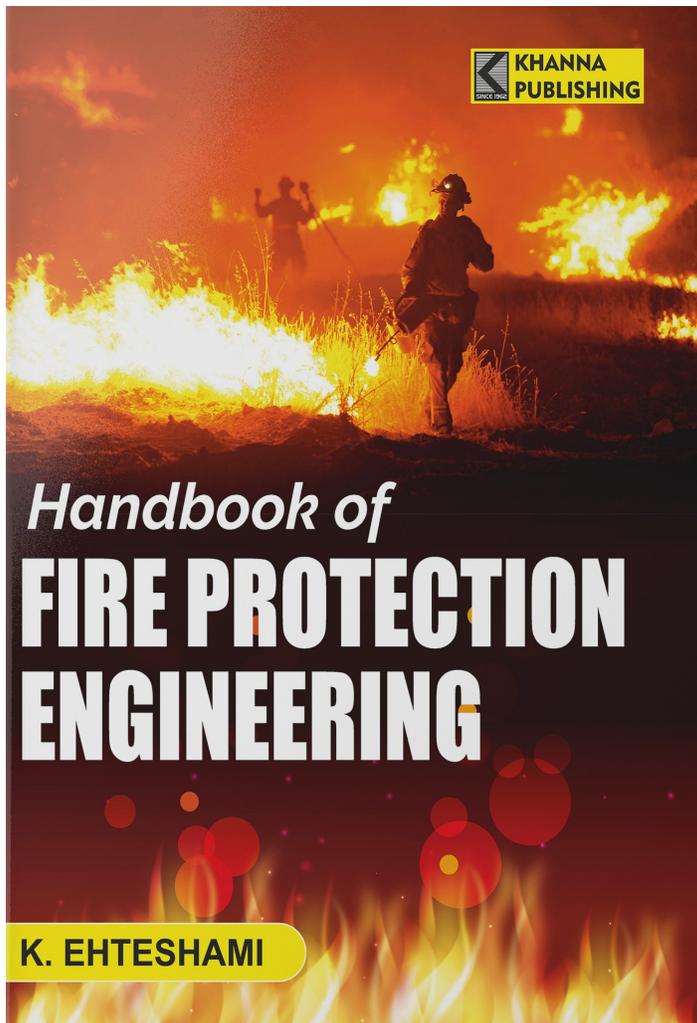
Akshat Srivastava



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Handbook of Fire Protection Engineering

Author :	K. Ehteshami
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Condition Type :	New
Country Origin :	India

Product Description

This book "Handbook of Fire Protection Engineering" in response to the need for an up-to-date practical handbook which I believe is highly useful in providing help for engineers, architects, contractors, colleges, universities, and regulatory agencies. The direct and complete presentation of materials in this handbook is especially useful in the design and installation of modern fire protection systems. Also, there is a chapter on explosion prevention which is highly useful in woodworking shops, munition making factories, etc.

Each chapter in this book focuses on the major area of concern for fire protection professionals. The chapters are organized and presented in the order that is compatible with the engineering textbook.



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- Chapter 8:** Halon Systems.
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- Chapter 11:** Explosion Protection System.
- Chapter 12:** Light Hazard Occupancies.
- Chapter 13:** Ordinary Hazard Occupancies.
- Chapter 14:** Extra Hazard Occupancies.
- Chapter 15:** Introduction to Hydraulic Calculations.
- Chapter 16:** Hydraulically Designed Loop and Grid Systems.
- Chapter 17:** Fire Protection for Homes and Mobile Homes.
- Chapter 18:** Fire Protection for Mid-Rise Buildings.
- Chapter 19:** Fire Protection for High-Rise Buildings.
- Chapter 20:** Fuel Use and Storage.
- Chapter 21:** Flammable or Combustible Liquids.
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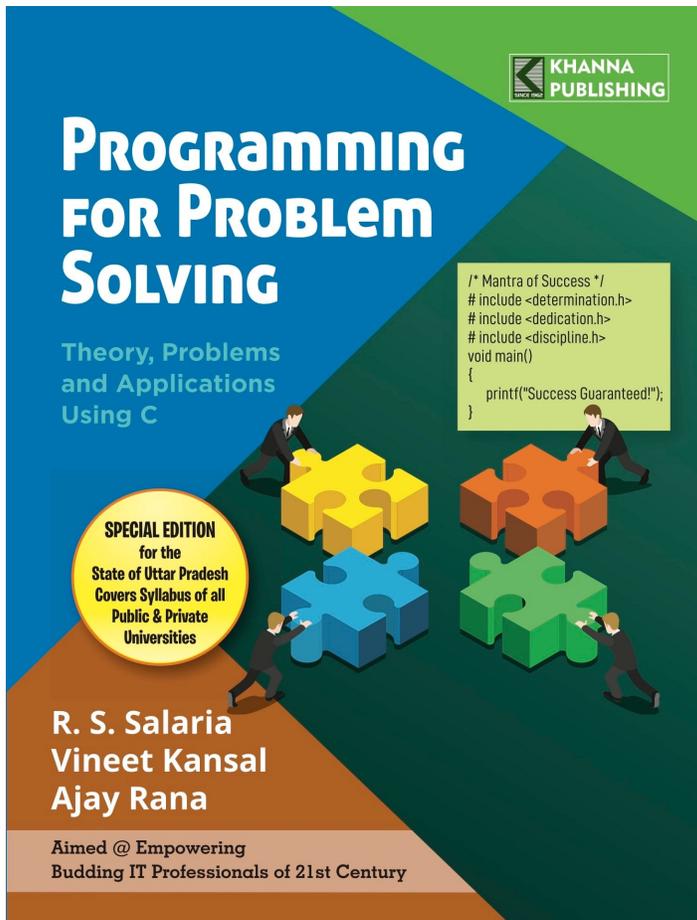
Author

K. Ehteshami

Keyoumars Ehteshami was born to a khan family from Bakhtiari tribe located in Zagros mountains in southwest Iran. He finished Elementary School in Shar kord, Iran and for High School, he attended Alborz High School, a private school; in Tehran. Upon graduation from Alborz he attended University of Text and obtained a Bachelor of Science degree (B.S.) in Mathematic and Physical Science. Later he obtained Professional Engineering registration (P.E.) from Princeton University. He also holds a Master degree in Business Management (M.B.A.) from National University in Los Angeles.

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Programming for Problem Solving

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Product Description

This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills. Therefore, keeping in mind the requirements of 21st Century, a special emphasis is laid on the following aspects: Designed keeping in mind the objectives of OUTCOME BASED EDUCATION. Simple and lucid language that enables even an average reader to grasp the fundamental concepts of the subject. Illustrative examples (165+ in number) to demonstrate the application of the concepts. Multiple choice questions (225+ in number) to provide an opportunity for self-assessment of the fundamental concepts learned. Short-answer type questions (192+ in number) to provide an opportunity to synthesize the fundamental concepts learned to answer precisely. Programming exercises (112+ in number) to provide an opportunity to harness their coding skills. Coding problems (42 in number) from the IT/IT-enabled industry perspective to conquer the screening phase of the placement process. Frequently asked questions (43 in number) to conquer the technical round of the CAMPUS PLACEMENT PROCESS with flying colors. The whole content is designed and organized as per the BLOOM'S TAXONOMY.

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Coding/Programming Problems for Campus Placements **Chapter 1:** Introduction to Computers. **Chapter 2:** Program Solving and Program Planning. **Chapter 3:** Overview of C Language. **Chapter 4:** Data Types, Variables and Constants. **Chapter 5:** Operators and Expressions. **Chapter 6:** Console Input/Output. **Chapter 7:** Decision Making and Branching. **Chapter 8:** Decision Making and Looping. **Chapter 9:** User-Defined Functions. **Chapter 10:** Arrays and Strings. **Chapter 11:** User-Defined Data Types : Structure, Union & Enumeration. **Chapter 12:** Pointers & Dynamic Memory Management. **Chapter 13:** File Handling. **Chapter 14:** Preprocessor Directives. **Chapter 15:** Introduction to Algorithms. **Appendix A:** Answers of MCQs. **Appendix B:** FAQs for Oral Examination. **Appendix C:** Solution of Selected Programming Exercises.



Authors

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.

Dr. Ajay Rana

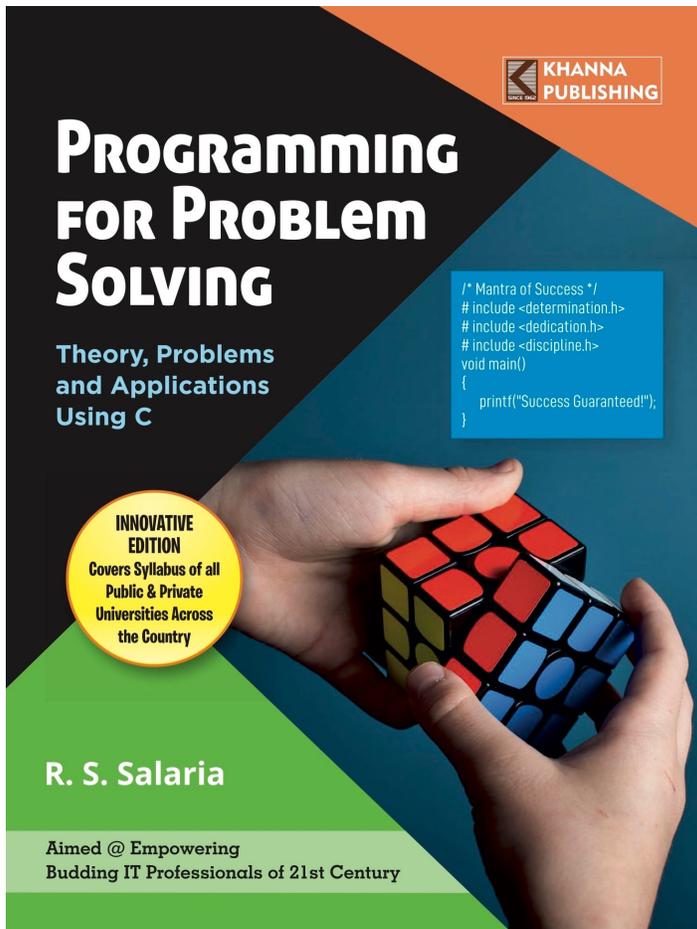
Professor, Department of Computer Science & Engineering Dean and Director, Amity University

1. 30+ patents under his name in the field of IoT, Network & Sensors 2. 279+ Research publications 3. Co-authored 6 Books 4. Completed 30 Sponsored Research Projects 5. Senior member, Academic Council & Executive Council, Amity University 6. Strong corporate connect.

Prof. Vineet Kansal

Professor, Department of Computer Science & Engineering, Institute of Engineering & Technology (IET), Lucknow, Uttar Pradesh Pro Vice Chancellor, Dr. APJ Abdul Kalam Technical University (AKTU), Lucknow, Uttar Pradesh Professor In-Charge (T&P), AKTU, Lucknow Coordinator, Technical Education Quality Improvement Programme (TEQIP-III), AKTU, Lucknow Former Dean (Under Graduate Studies & Entrepreneurship), AKTU Lucknow Alumnus of IIT, Delhi .





Programming for Problem Solving

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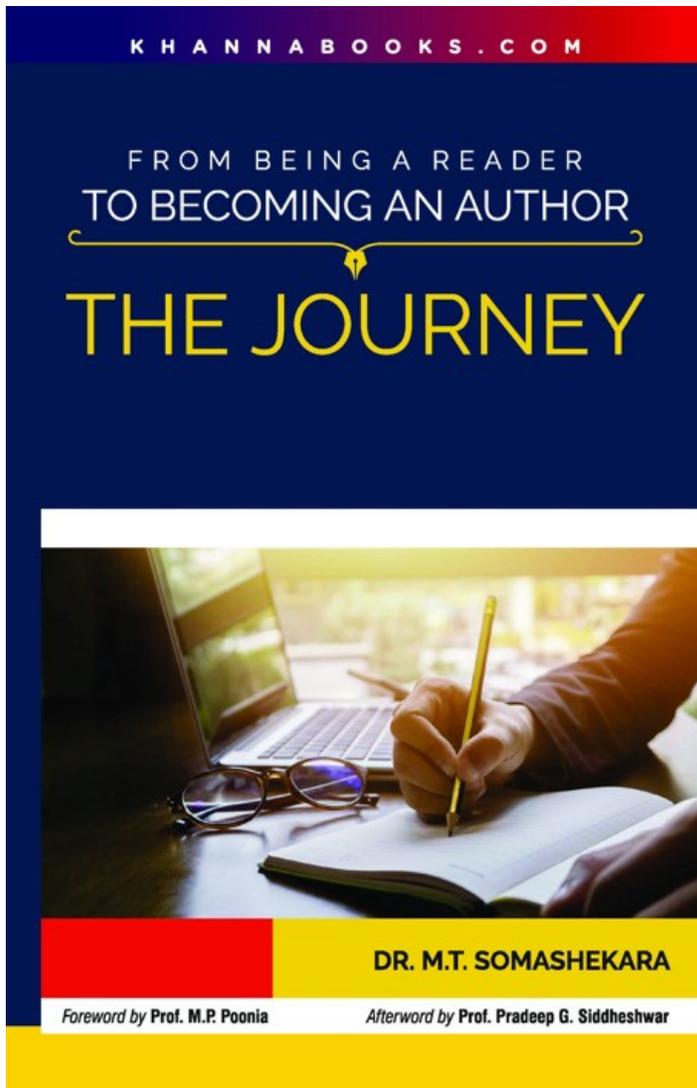
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The Journey - From Being a Reader to Becoming an Author

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Product Description

Here is a collection of my motivational and directional messages on authoring academic books. They answer the questions why should a teacher in an institution of higher learning involve in authoring an academic book? And How to go about authoring keeping in mind the expectations from the book's perspective readers and the expectations from the prospective publishers? And in addition to these there is one more chapter (9th one) namely "9. Responses from Professors of Eminence, Teachers, Friends and Team Members on the Initiative and on the Motivational and Directional Communications". The messages in the well-organized chapters undoubtedly clear all inhibitions in the mind of a teacher aspiring to become an author. The book has thus turned out to be a reference guide consisting of the right set of prescriptions for budding authors of academic books to realize their dream of becoming an author.



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Author

M.T. Somashekara M.T. Somashekara is with the Department of Computer Science and Applications, Bangalore University, Bengaluru. He has over two decades of teaching experience at both UG and PG levels. He has authored three other books 'Problem Solving with C', 'Object-Oriented Programming with C++' and 'Object-Oriented Programming with JAVA' published by PHI Learning Private Limited, New Delhi and all of these have seen multiple editions. They have been adopted as textbooks/reference books for UG and PG courses of more than a hundred universities and autonomous colleges in the country. He has also authored a unique motivational and directional book on authoring academic books entitled 'The Journey – From Being a Reader to Becoming an Author' brought out by Khanna Publishing House and it is useful for those aspiring to become academic authors as it not only motivates but guides also as to how to go about academic authoring. He has several research papers to his credit in national and international journals. He is a life member of ISTE CSI, ISCA, and IUPRAI. His areas of academic interest include Data Structures, Algorithms, Programming Languages, Operating Systems, and Databases. His areas of research include Image Processing and Pattern Recognition.





River Engineering

(Theory & Practice)

Prof. Santosh Kumar

River Engineering

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Product Description

This text book is designed essentially to meet the requirements of Undergraduate Engineering interested in Water Resources specialization. More particularly, the book shall help the field engineers involved with rivers understanding river's two function of transporting water as well as sediment. The book is divided in 3-major parts, viz. Basic Science of River flow, Sediment Transport and other topics like, Flood control, River Ganging, and River Trading. The book on River Engineering containing large number of solved problems. Simplified graphs Chapter on River Ecology and Interlinking of Rivers.



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Author

Santosh Kumar 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).





Electromagnetic Fields and Waves

R.L. YADAVA

Electromagnetic Fields & Waves

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Product Description

This book is designed to serve as a textbook for UG and PG students of Electronics and Communication, Electronics and Electrical, Electronics & Instrumentation and Telecommunication Engineering branches. It provides a thorough understanding of the electromagnetic theory and their properties, application and also the modern trends in Electromagnetism in detail. Book also describes transmission lines, wave guides, as well as the effects of EMI/EMC, including impedance matching and antennas. Written in an easy-to-understand manner, the book includes several illustrative examples, objective-type questions and exercise Questions to reinforce the theoretical understanding of subject. Appendices provide information and expressions as well as design data for references.



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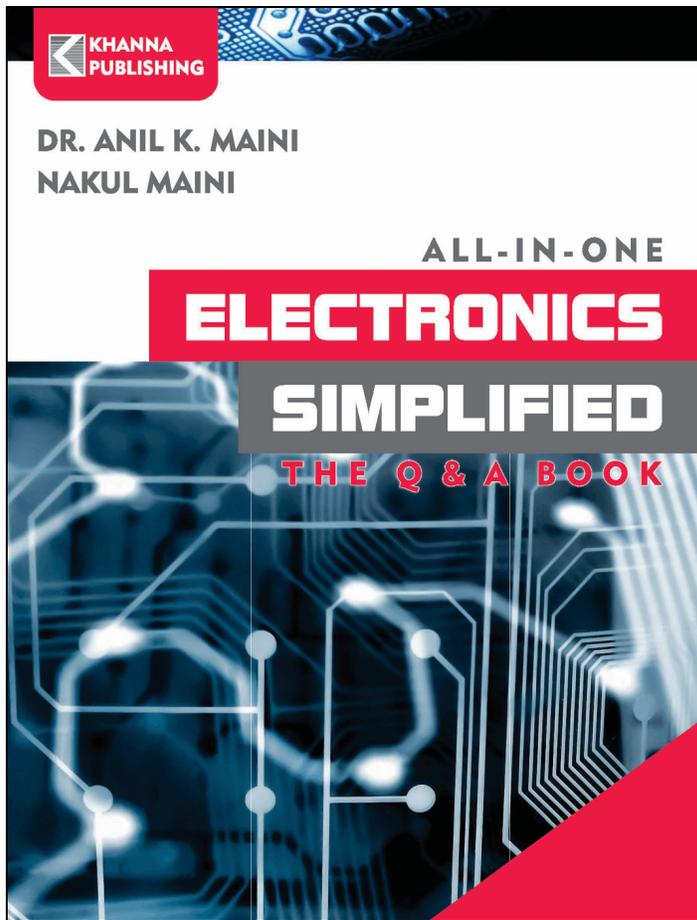
Chapter 1: Introduction. **Chapter 2:** Vector Analysis and Coordinate System. **Chapter 3:** Electrostatic Fields. **Chapter 4:** Magnetic Static Fields. **Chapter 5:** Maxwell's Equations and Uniform Plane Wave. **Chapter 6:** Electromagnetic Waves and Flow of Power. **Chapter 7:** Transmission Lines. **Chapter 8:** Broadband Impedance Matching. **Chapter 9:** Waveguides. **Chapter 10:** Principle of Radiation and Antennas. **Chapter 11:** Electromagnetic Interference and Compactibility. **Chapter 12:** Solved Examples. **Chapter 13:** Objective Question Bank. **Chapter 14:** Objective Questions Test Series. **Chapter 15:** References. **Chapter 16:** Appendix. **Index**

Author

R.L. Yadava

Dr. R.L. YADAVA, is Professor in the department of ECE, Galgotias College of Engg. and Technology, Gr. Noida, UP. During his doctoral work he was associated with R&D project funded by DST, Govt. of India. After receiving Ph.D. degree, he joined VIT University, Vellore T.N, in 2001 and served as Head of Microwave Division, Coordinator R&D and Coordinator (UG) of Electrical Sciences. During his service at VIT, he was deputed as visiting faculty to KIGALI UNIVERSITY, KIGALI Center Africa. He has been coordinator of M. Tech program of U.P. Technical University, 2007-08. He has organized several guest lectures, short-term training program, FDPs and conferences in the field of microwaves and Antennas. His research areas includes: Waveguides, Microwaves and Microstrip Antennas. He has guided several M. Tech dissertations and 05 Ph.Ds. He has 120 publication in International/ National Journals, Conferences and Symposiums. He is Member of ISTE, SEMCE (I) and IEEE.





All-in-One Electronics Simplified

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Product Description

The All-in-one Electronics Simplified is comprehensive treatise on the whole gamut of topics in Electronics in Q & A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis , Operational Amplifiers and Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter.



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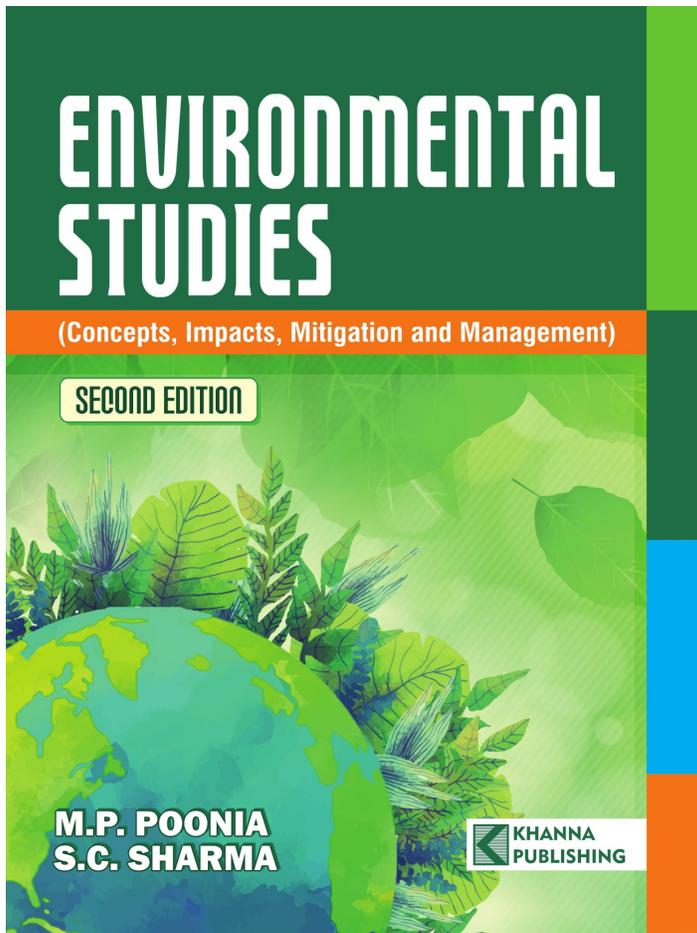
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- Chapter 3:** Inductors and Transformers.
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- Chapter 5:** Network Fundamentals Network Graphs - Mesh Current Analysis - Node Voltage Analysis -RLC Transients - Voltage and Current Sources - Coupled.
- Chapter 6:** Network Theorems.
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- Chapter 9:** Diodes and Transistors.
- Chapter 10:** Field Effect Transistors.
- Chapter 11:** UJT's and Thyristors.
- Chapter 12:** Optoelectronic Devices.
- Chapter 13:** Amplifiers.
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- Chapter 15:** Linear Power Supplies.
- Chapter 16:** Switched Mode Power Supplies.
- Chapter 17:** Wave Shaping Circuits.
- Chapter 18:** Operational Amplifiers Fundamental-Types-Characteristic Parameters .
- Chapter 19:** Operational Amplifiers Application Circuits.
- Chapter 20:** IC Timers.
- Chapter 21:** Phase Locked Loops.
- Chapter 22:** Digital Electronics Fundamental Number Systems and Codes-Binary Arithmetic Boolean Algebra and Minimization Techniques.
- Chapter 23:** Logic Gates Logic Families and Combinational Logic Circuits.
- Chapter 24:** Sequential Logic Circuits Flip Flop, Counter and Register.
- Chapter 25:** D/A and A/D Converters.
- Chapter 26:** Microprocessors an Memory Devices. **Chapter 27:** Programmable Logic Devices Proms - PALs -Microcontrollers - CPLDs - FPGAs.
- Chapter 28:** Feedback and Control Systems.
- Chapter 29:** Electrical Measurements and Instrumentation.
- Chapter 30:** Sensors and Transducers.

Authors

Dr. Anil K. Maini served Defence Research and Development Organization (DRDO) for 36 years in different capacities. Before superannuation, he served as Director of Laser Science and Technology Centre (DRDO) from September 2008 to June 2014. His areas of expertise include Optoelectronic simulators and sensors, Laser systems, Electro-optic countermeasures and High voltage electronics, He has authored and co-authored 15 books more than 150 publications in national/international journals/magazines and has 12 patents (four granted, eight pending) to his credit Currently, he is Consultant in Defence Technologies. **Nakul Maini**





Environmental Studies

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Environmental degradation has been a 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 environment 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 the 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 from concepts through impacts, mitigation auto management.



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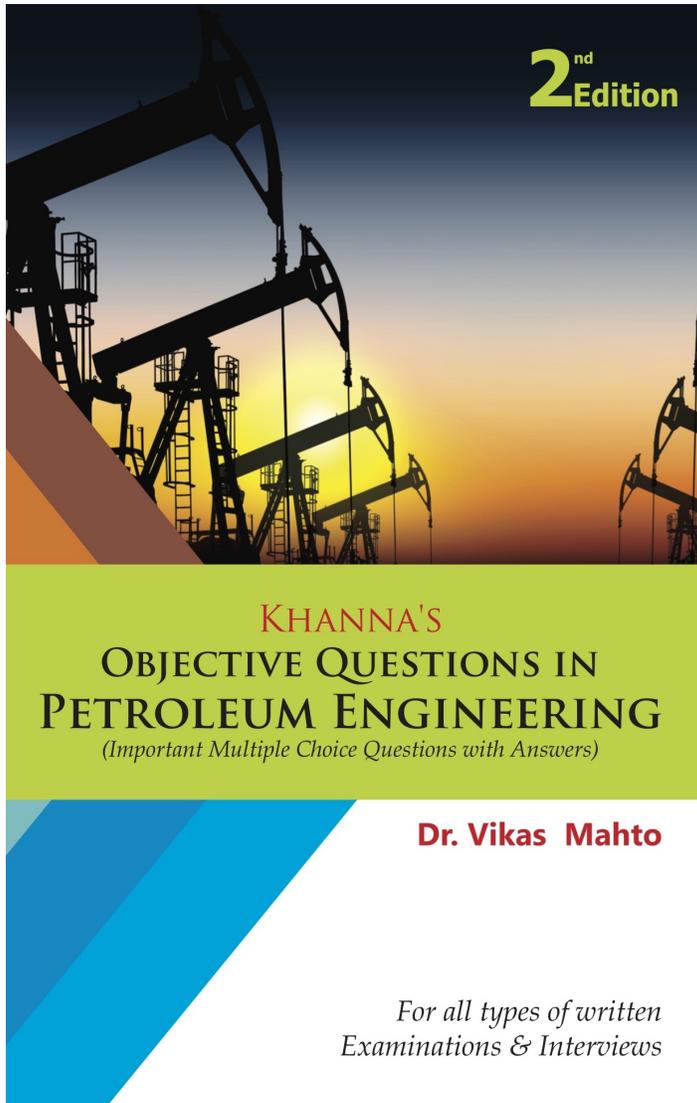
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- Chapter 5: Biodiversity and Conservation
- Chapter 6: Natural Resources
- Chapter 7: Forest Resources
- Chapter 8: Water Resources
- Chapter 9: Mineral Resources
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- Chapter 11: Energy Resources
- Chapter 12: Food Resources
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- Chapter 20: Environmental Protection
- Chapter 21: Environmental Legislation
- Chapter 22: Environmental Impact Assessment (EIA)
- Chapter 23: Environmental Management and Environmental Management Plan (EMP)
- Objective Type Question



Author

M.P. Poonia 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** 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.





Khanna's Objective Questions in Petroleum Engineering

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Dr. Vikas Mahto

For all types of written Examinations & Interviews

Product Description

In this book, an attempt has been made by the author to present numerous important questions with answers which have been methodically prepared/selected from different text books, manuals of petroleum industries, SPE technical chapters and teaching materials of distinguished persons. These questions are very relevant for promoting fundamental understanding of petroleum engineering and will be primarily useful for fresh graduates of petroleum engineering who can prepare themselves soundly for both written as well as oral examinations. The hints and solutions of most important questions are included in this book.



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Author

Dr. Vikas Mahto is an Associate Professor in the petroleum Engineering Department of Indian School Of Mines Dhanbad, India. He has received his Ph.D. degree in petroleum Engineering from Indian School of Mines Dhanbad in 2004. He is having more than 12 years of teaching experience in the field of Chemical Engineering and Petroleum Engineering. He is the author of more than 100 technical papers in different national/International journals 7 conferences of repute. He has completed three research projects sponsored by UGC-ISM, UGC New Delhi and CSIR New Delhi and currently working on collaborative project with Oil India India Ltd, Duliajan, Assam. He has field two Indian Patents. He is the reviewer and member of editorial boards of many national and international journals.




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REFRIGERATION AIR CONDITIONING

Refrigeration and Air Conditioning

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Country Origin :	India

Product Description

Refrigeration and Air-Conditioning is a compulsory subject for the B Tech Mechanical Engineering and other allied branches. It is offered in the final year of the degree program. It is also taught to Diploma students. With the global problem of environment pollution, warming and ozone layer depletion, the importance of this subject has increased manifold in the engineering education. The subject is also important from the point of view of job opportunities as it is an essential part of any competitive examination. Many books on this subject are available in the market but most of these books do not cover the various aspects of this subject. The author has a vast experience of teaching and administration in reputed institutions and Universities of the country. The author has also long experience of association with the National level examining bodies like UPSC and State Level Public Service Commissions to conduct examinations for National and State Services. This vast experience of the author has been utilized in writing the book. The book contains seventeen chapters on : Basic Concepts of Thermodynamics, Fundamentals of Refrigeration, Air Refrigeration Cycles, Aircraft Refrigeration Systems, Simple Vapour Compression Systems, Multi - Stage Vapour Compression Systems, Vapour Absorption refrigeration Systems, Refrigerants, Refrigeration Equipment, Cryogenics, Steam Jet Refrigeration System, Psychrometric. Comfort Air-Conditioning, Cooling and Heating Load Estimation, Ducts Design, Fans, and Applications of Refrigeration and Air - Conditioning. A large number of Multiple - Choice Questions from Gate and Civil Services Examinations have been given in the form of appendices. Useful Tables and Charts have been given at the end of the book. Numerical Problems from Indian Engineering Services Examinations conducted by the UPSC are given chapter wise.



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Author

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

