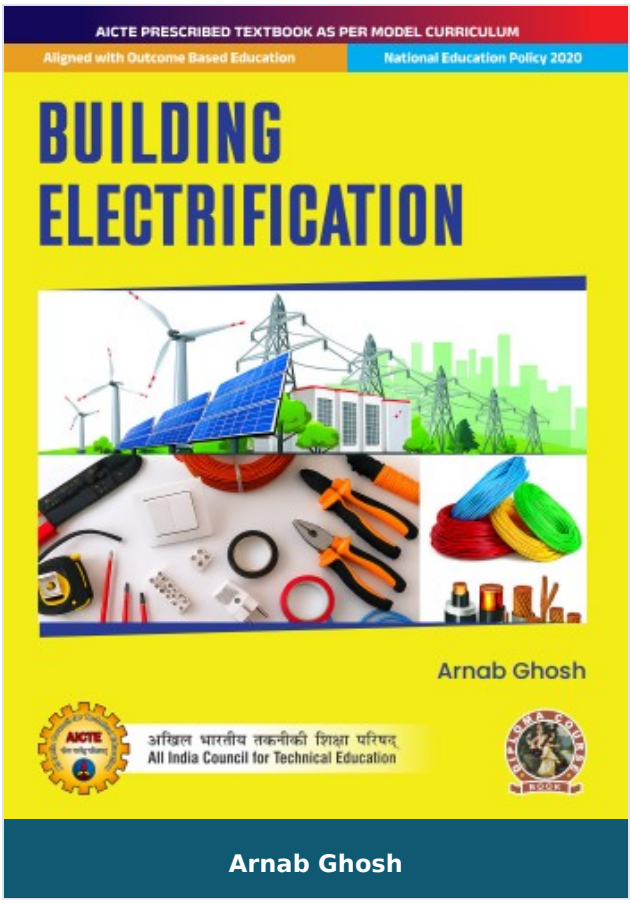


Building Electrification

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Product Description

Building Electrification

This book aims to provide readers, especially third-year diploma students, with a thorough knowledge of Building Electrification in the best possible way. The syllabus of this book is as per the AICTE curriculum model, following the National Education Policy 2020. Each book chapter is very lucid, so one can easily understand the underlying concepts. Review questions, exercises, QR codes of online links, and other learning resources follow explanatory examples. The book discusses electrical wiring tools and accessories, electrical wires and underground cables, wiring methods and wiring layout, residential building electrification, protection of electrical installation, and illumination in residential installation.

Salient Features:

- Content of book aligned with the mapping of Course Outcome, Programs Outcomes, and Unit Outcomes.
- At the beginning of each unit, learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR for the use of ICT, projects, group discussion, etc.
- Student and teacher-centric subject materials are included in the book in a balanced and chronological manner.
- Apart from the essential information, a `know more' section is also provided in each unit to extent the learning beyond the syllabus.
- Multiple choice questions, short and long-answer questions are given in the exercise for students' practice after every chapter.

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- Solved and unsolved problems, including numerical examples, are solved systematically.

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- Index

Author

Arnab Ghosh

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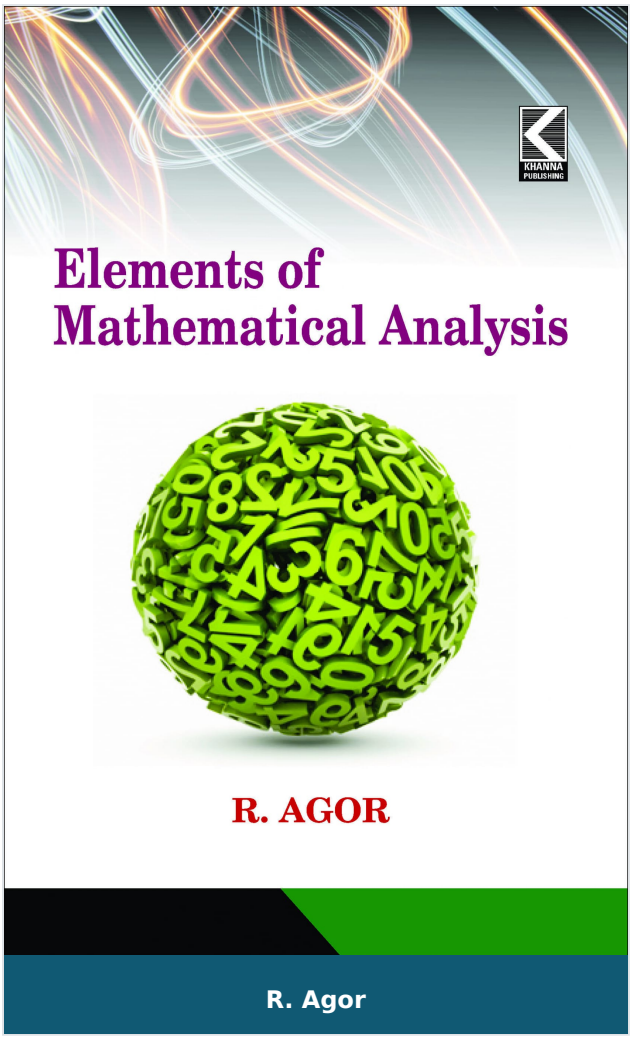
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Elements of Mathematical Analysis

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Product Description

This book is intended to serve as a basic text book for the students who attempt to pursue studies at various stages in Scientific and Engineering fields of various Indian Universities. The main aim of this book is to discuss the theory of mathematical analysis and to treat the subject matter rigorously to the beginners, keeping in view of the modern trends of examinations.

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- Number System
- Determinants
- Matrices
- Eigen Values and Eigen Vectors
- Numerical Analysis
- Linear Programming

Author

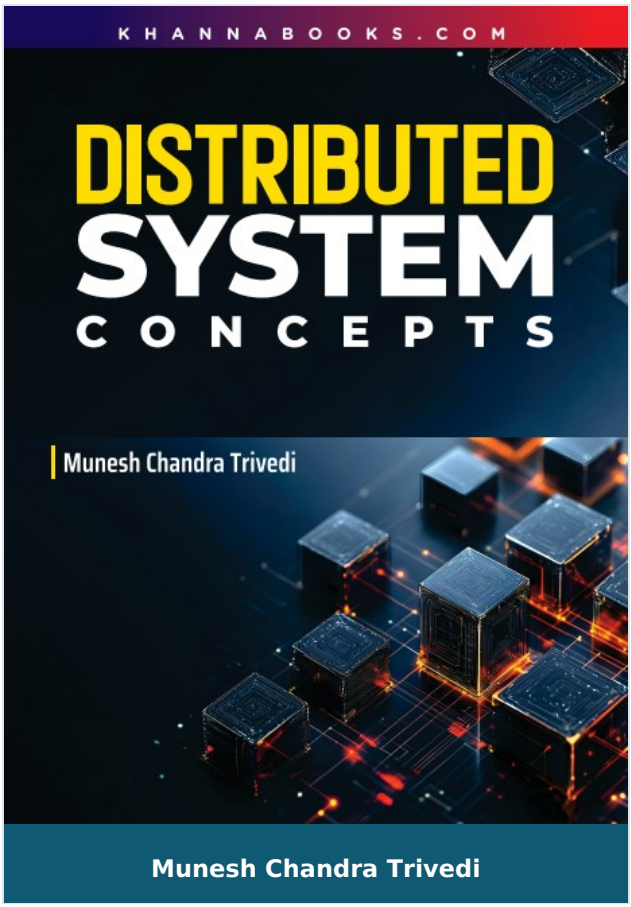
R. Agor

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Distributed System Concepts

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Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive, Besides, students face problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in Distributed System Concepts, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.

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- Distributed File System
- Distributed Object and Remote Invocation
- Security
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- Corba and Rmi
- Appendix

Author

Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College,

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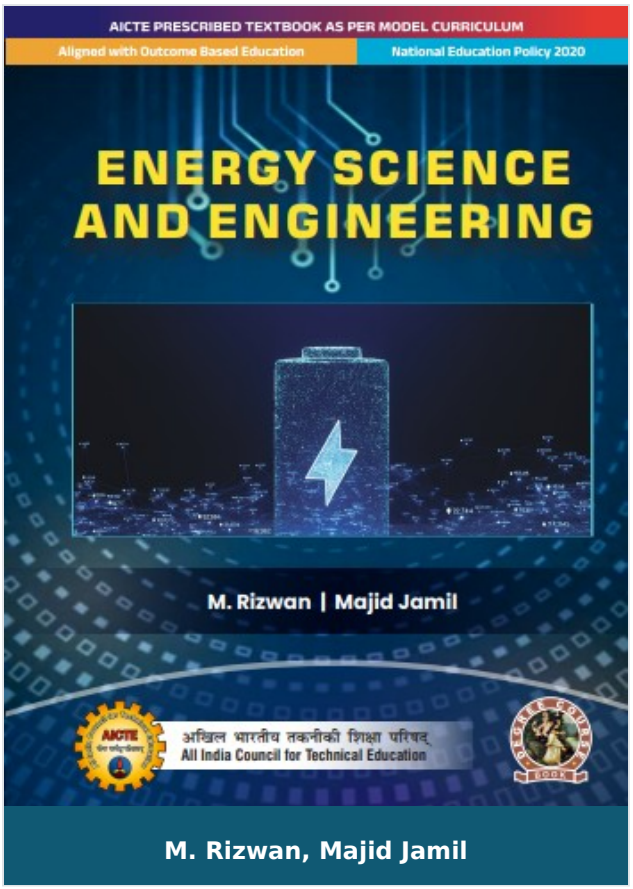
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Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

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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:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.

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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.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- References and Suggested Readings

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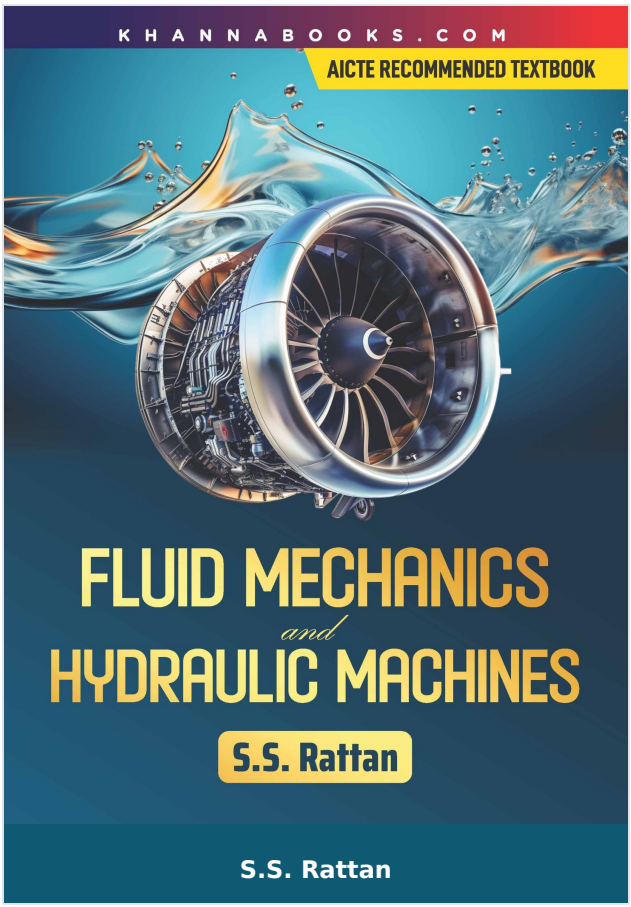
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Fluid Mechanics and Hydraulic Machines

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Product Description

Written in an innovative style, this book in SI system of units is a complete treatise on fluid mechanics and hydraulic machines. It presents the subject matter in an explicit, lucid and comprehensive manner. Simple mathematical models have been used to describe the intricate physical concepts.

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- Flow in Open Channels
- Boundary Layer Theory
- Immersed Bodies
- Compressible Flow
- Impact of Jets
- Hydraulic Turbines
- Hydraulic Pumps
- Miscellaneous Fluid Machines

Author

S.S. Rattan

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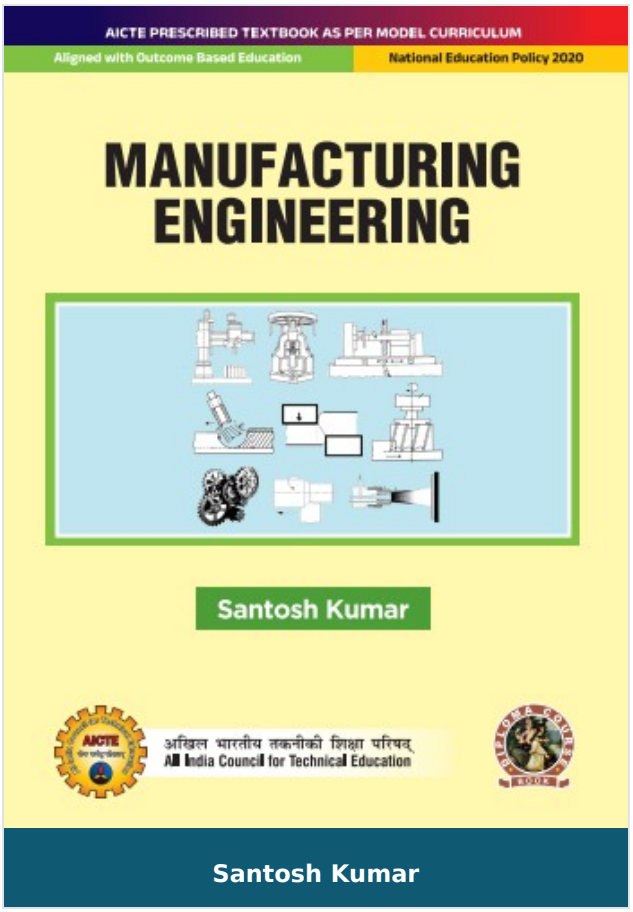
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Dr. S.S. Rattan is currently Assistant Professor in the Department of Mechanical Engineering at the Regional Engineering College, Kurukshetra. He did his post graduation in Mechanical Engineering from Punjab Engineering College, Chandigarh in 1981. Since then he has been engaged in teaching and researching. He obtained his Ph.D. degree from Kurukshetra University in 1995 in the field of Tribology. He has authored several papers which have been published in national and international journals. He is also the author of two other books-Theory of Machines and Fluid machines. He is a member of Society of Fluid Mechanics and Fluid Power India.

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Manufacturing Engineering

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Product Description

Manufacturing Engineering

A student is always curious to make his idea converted into physical form as a useful product or a device. A product may consist of many sub assembly or components and need to be manufactured physically using some engineering materials like metals. Polymer, composites or ceramics. Such material can be converted into a given shape and sizes using basic manufacturing process like machining, forming, grinding, finishing, polishing, welding of press working etc. therefor it is very important for mechanical, production, manufacturing and materials engineers to have a systematic understanding on fundamentals of manufacturing practices and engineering that affect process selection and its parameters as per the need of an application. The book entitled `manufacturing Engineering' is developed as per the model curriculum of AICTE, New Delhi for 2nd year of Diploma students on subject `Manufacturing Engineering'.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.

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- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Exercises
- Practicals
- Know more
- Suggested Resources for Further Reading/Learning
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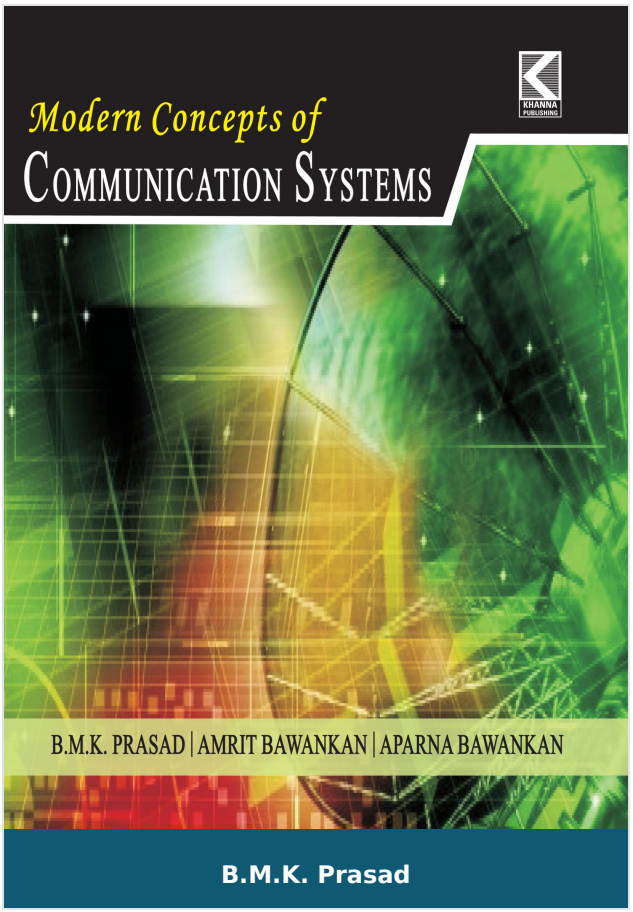
Santosh Kumar

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).

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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
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- Angle Modulation
- Signal Analysis
- Noise
- Pulse Modulation
- Digital Modulation
- Index

Author

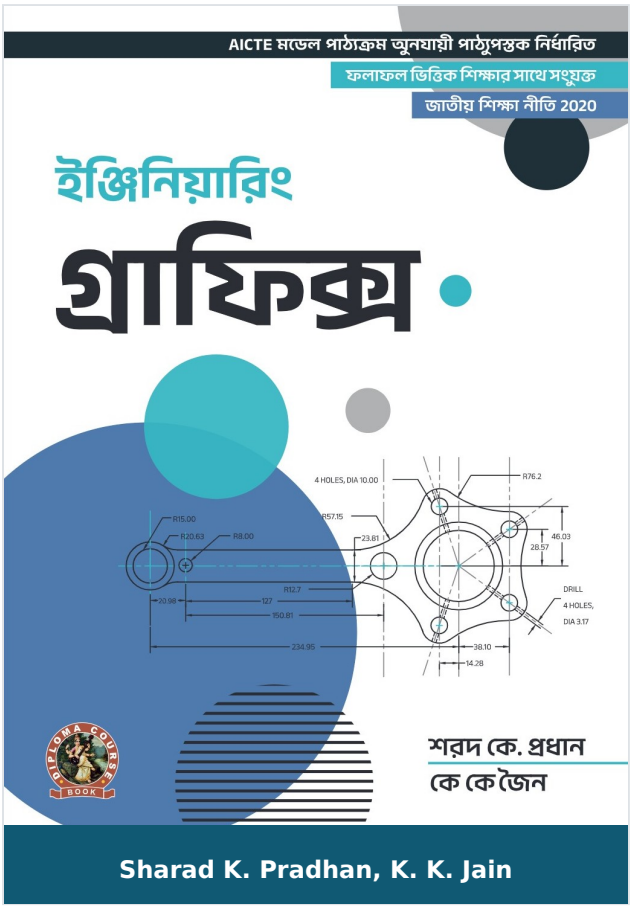
B.M.K. Prasad

B.M.K. Prasad is a principal Of Dronacharya College of engineering , Gurgaon

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Engineering Graphics

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Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course in Engineering & Technology.Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

4. Student and teacher centric subject materials included in book with balanced and chronological manner.

5. Figures, tables and software screen shots are inserted to improve clarity of the topics.

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

7. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- Guidelines for Students
- Basic Elements of Drawing.
- Orthographic Projections.
- Isometric Projections.
- Free Hand Sketches of Engineering Elements.
- Computer Aided Drafting Interface.
- Computer Aided Drafting.

Author

Sharad K. Pradhan

Sharad K. Pradhan

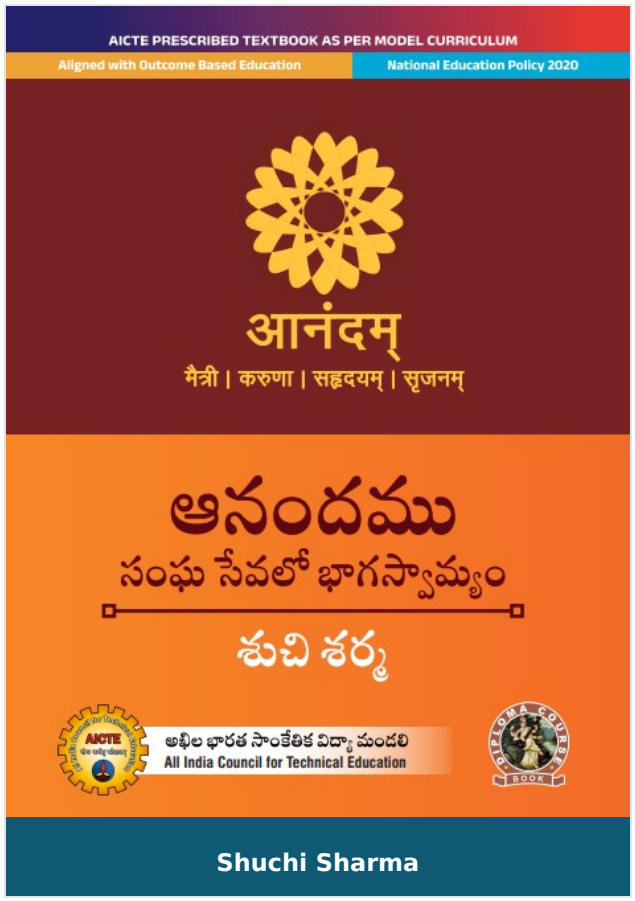
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Aanandam An Act of Community Service

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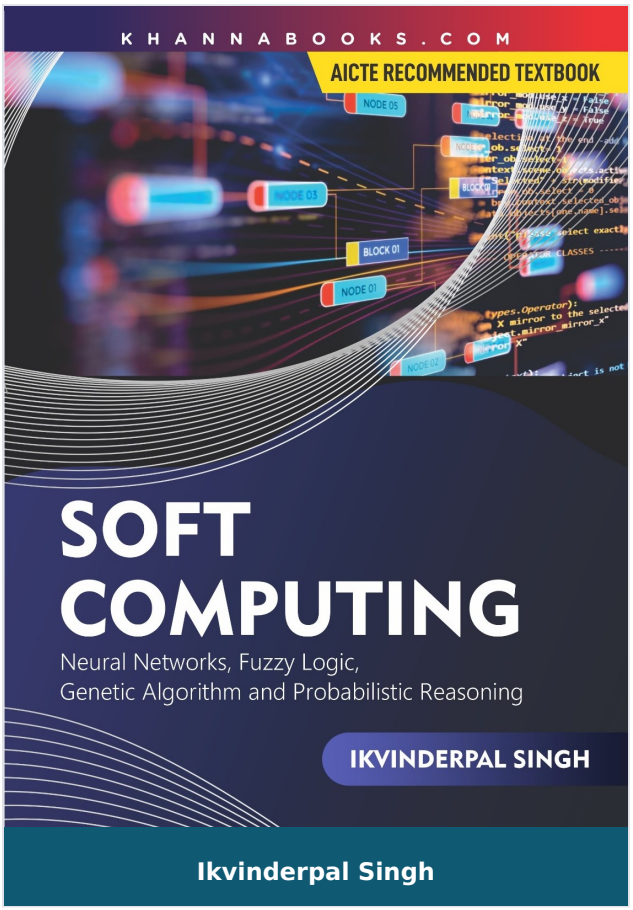
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Soft Computing

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Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques in Soft Computing. It can also meant for Programmers who may be involved in programming based on the soft computing applications. Modern aspects of soft computing have been introduced from the first principles and discussed in an easy manner, So that a beginner can grasp the concept of neural networks fuzzy, genetic algorithm and probabilistic reasoning, each chapter contains solved example problems and exercise problems.

SALIENT FEATURES

- Detailed explanation of soft computing concepts
- Extensive coverage of fundamental concepts of Artificial neural network
- Present architecture and algorithm of every net in enough detail
- Provides examples of simple applications
- Gives mathematical development when it provides a guide to proper implementation of net
- Covers all supervised and unsupervised learning methods
- Discusses on the introduction to classical sets and fuzzy sets
- Fundamental idea on classical relations and fuzzy arithmetic explains in a lucid manner
- Detailed explanation of fuzzy rules is given
- Gives the architecture, operation and various applications of fuzzy logic systems
- Concepts of neuro-fuzzy and genetic algorithm are included
- Detailed analysis of each and every type of probability is explained with the help of examples
- Demonstrates the concept of fuzzy logic and probability.

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This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level course of DOEACC.

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