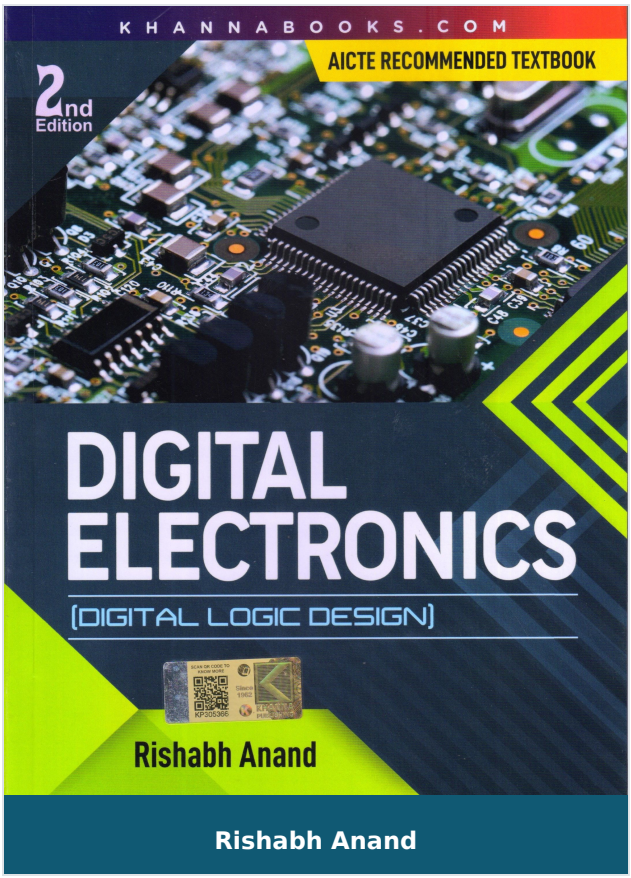


Digital Electronics

Author :	Rishabh Anand
ISBN 13 :	978-93-82609-44-5
ISBN 10 :	938260944X
E-ISBN 13 :	978-93-82609-44-5
Edition :	2
Pages :	736
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 795.00
Categories :	Electrical, Electronics & Communication Engineering, UNIVERSITY RECOMMENDED, Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
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Author

Rishabh Anand

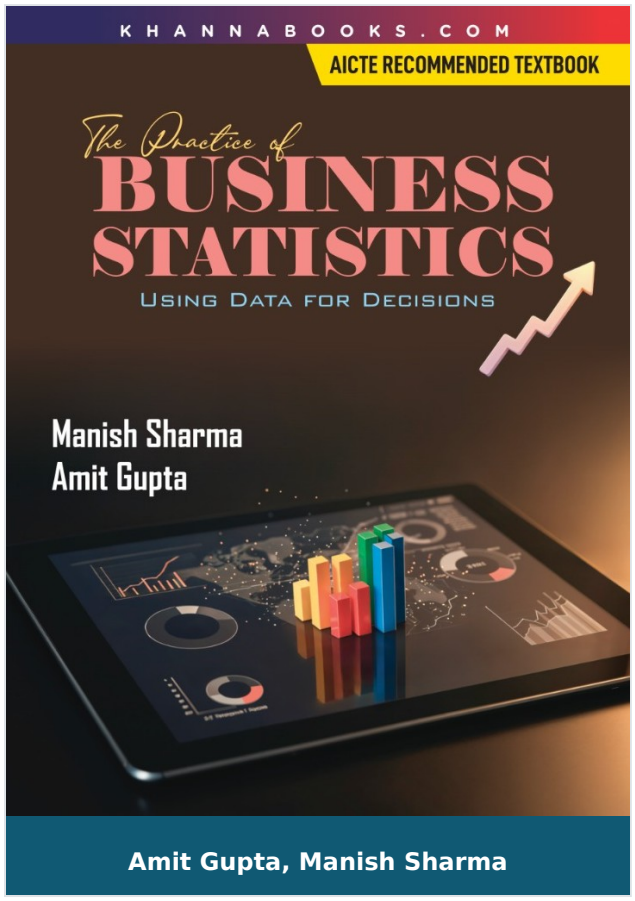
Rishabh Anand received his Bachelor‘s degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The

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Amit Gupta, Manish Sharma

The Practice of Business Statistics

Author :	Amit Gupta, Manish Sharma
ISBN 13 :	978-93-80016-51-1
ISBN 10 :	9380016514
E-ISBN 13 :	978-93-80016-51-1
Edition :	1
Pages :	840
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 650.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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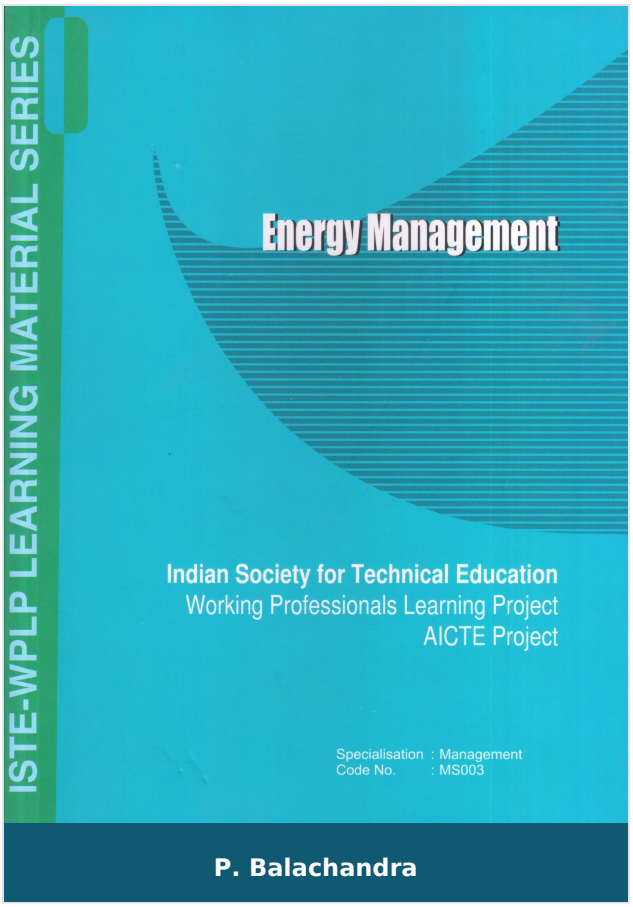
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Energy Management

Author :	P. Balachandra
ISBN 13 :	978-93-55384-47-8
ISBN 10 :	9355384475
E-ISBN 13 :	978-93-55384-47-8
Edition :	1
Pages :	266
Type of book :	Physical
Year :	2011
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 369.00
Categories :	Management Books, Book Store, ISTE Series
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Supply and utilization of energy, forms an integral part of economic development of a country. Further, energy interacts with all aspects of social and economic development, including livelihoods, water, agriculture, industry, environment, population, health education, job creation and gender- related issues. These energy interactions have both positive and negative implications for every sector of the economy as well as for the environment. The objective of the author, is to introduce the prospective readers of this book to the fascinating world of energy and how it interacts with many other systems which are closely connected to the human system. This is done with a focus on India.

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- Energy and Sustainable Development.
- Energy Production and Utilization: Implications for Environment.
- Economics of Energy Supply and Use.
- Energy Efficiency: A new Source of Energy.
- Renewable Energy.
- Energy Modeling and Integrated Resource Planning.
- Energy Supply and Demand Security,
- Energy Policy and Regulatory Issues.
- Typical Questions
- Bibliography
- Appendix

Author

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Dr. P. Balachandra is a member of the Faculty, at the Department of Management Studies and Associate Faculty at the Centre for Sustainable Technologies Indian Institute of Science (IISc), Bangalore, India. In addition, he served as a visiting expert at the Harvard Kennedy School, Harvard University, USA; UNDP-Regional Centre, Bangkok; Asian Institute of Technology, Bangkok and Indira Gandhi Institute of Development Research,

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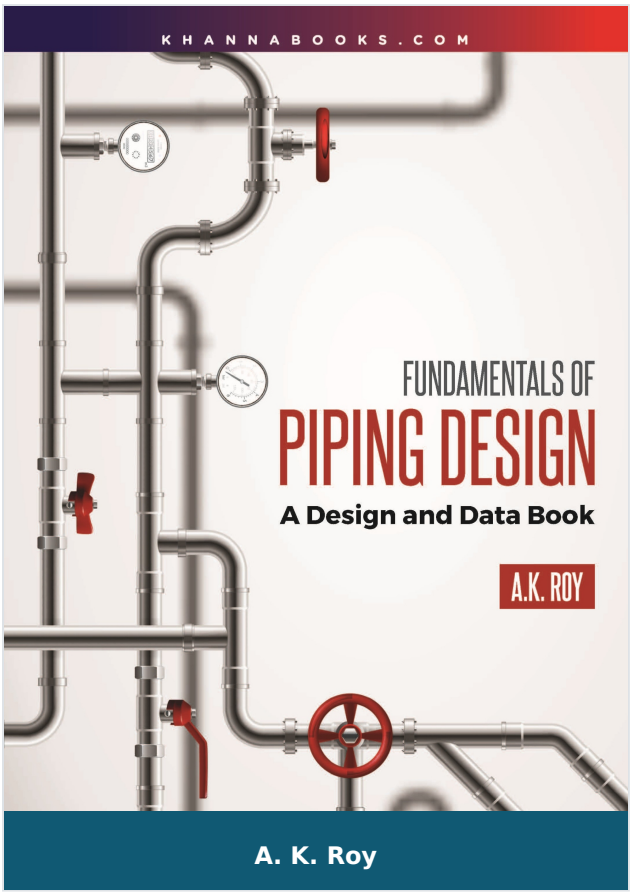
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Fundamentals of Piping Design (A Design and Data Book)

Author :	A. K. Roy
ISBN 13 :	978-93-55387-73-8
ISBN 10 :	9355387733
E-ISBN 13 :	978-93-55387-73-8
Edition :	1
Pages :	404
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Mechanical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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This book offers a comprehensive introduction to the design of piping systems for professional engineers. It explains the fundamentals of piping design along with essential data and practical guidelines in a clear, accessible manner. Covering material selection, layout development, stress analysis, and computer-aided design, the book draws from international standards such as ASME, ASTM, IS, and BS. It balances theory with real-world application, featuring detailed illustrations and a case study using software tools, making it a valuable reference across industries like power, oil & gas, waterworks, and chemicals processing.

SALIENT FEATURES OF THE BOOK

- Provides essential design knowledge for piping systems across industries.
- Includes data from ASME, ASTM, IS, BS, and other international standards.
- Covers the complete design process: piping layout, material selection, stress analysis, and support design.
- Contains a detailed case study on pipe stress analysis using computer-based software.
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- References

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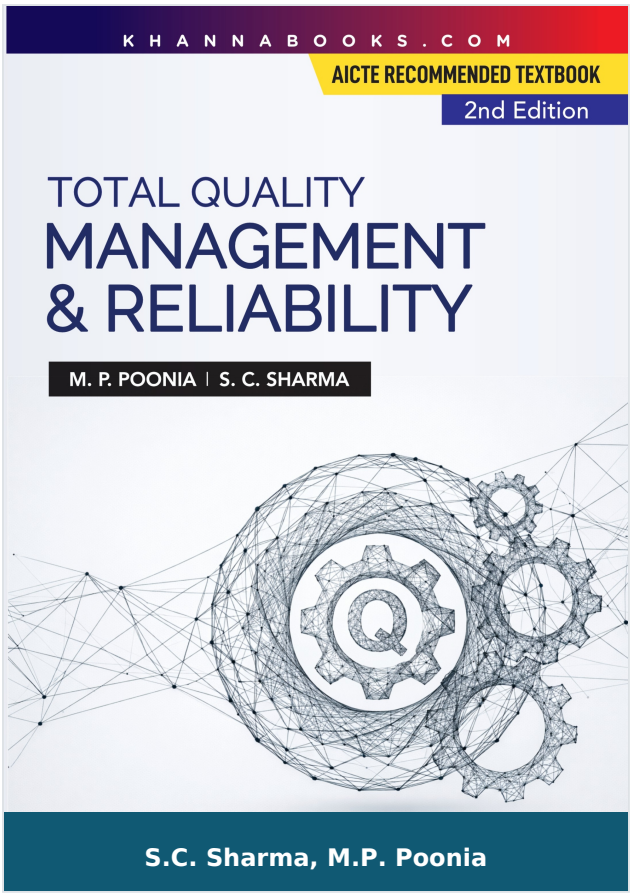
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Total Quality Management and Reliability

Author :	S.C. Sharma, M.P. Poonia
ISBN 13 :	978-93-91505-22-6
ISBN 10 :	9391505228
E-ISBN 13 :	978-93-91505-22-6
Edition :	2
Pages :	456
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Civil Engineering, New Arrivals, UNIVERSITY RECOMMENDED, Civil Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

Total Quality Management is an integrated approach in satisfying customer needs in totally on a continuous basis, through involvement of each and every employee in the organization, making continuous improvement on one side and an appropriate cost-effective technology on the other side. It is management philosophy for professional excellence that too through customer orientation. With the rapid advancement in technology and awareness, the users (Customers) have become highly quality conscious and demands quality, reliability and safety in product and service. In view of this, industries need to upgrade their quality continuously. Product and service quality requires managerial, technological and statistical concepts which are the major functions of an organization. The concepts like strategic management, competitive bench marking, self-managing teams, getting it right first time, zero defects, employee empowerment are important as they move towards Total Quality Management (TQM)in simple and easy to understand language. The book is divided in to parts, part-I cover the principles and practices of TQM, while part-II covers the tools and technology of TQM.

The book covers the syllabi of various universities and therefore, should serve the needs of students of business administration and those of engineering, technology, and related disciplines. The professionals too will find this book to be a valuable reference in the field.

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Author

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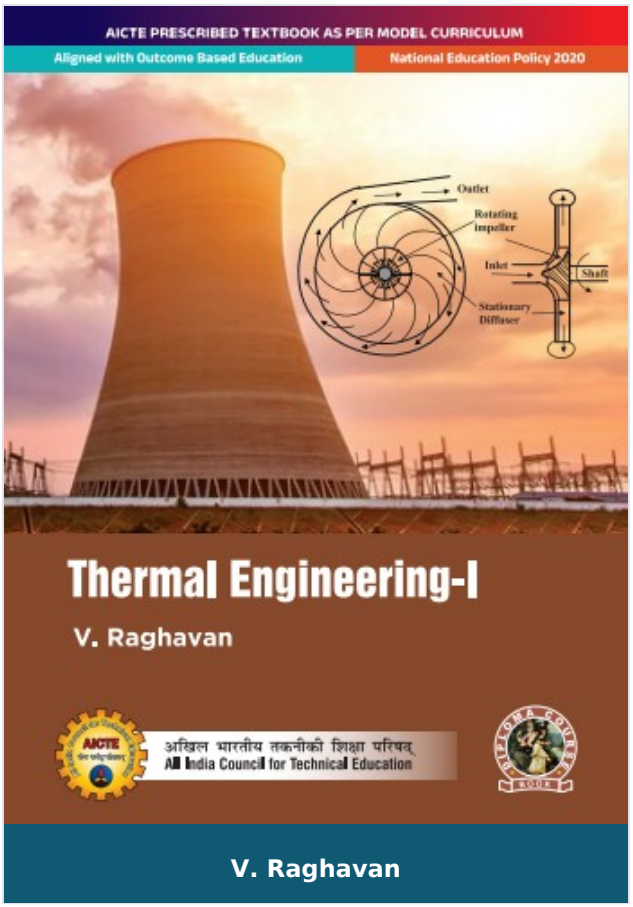
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Thermal Engineering- I

Author :	V. Raghavan
ISBN 13 :	978-93-55389-01-5
ISBN 10 :	9355389019
E-ISBN 13 :	978-93-55389-01-5
Edition :	First
Pages :	144
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 286.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Thermal Engineering- I

This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and furl cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring Important properties used in the analysis.

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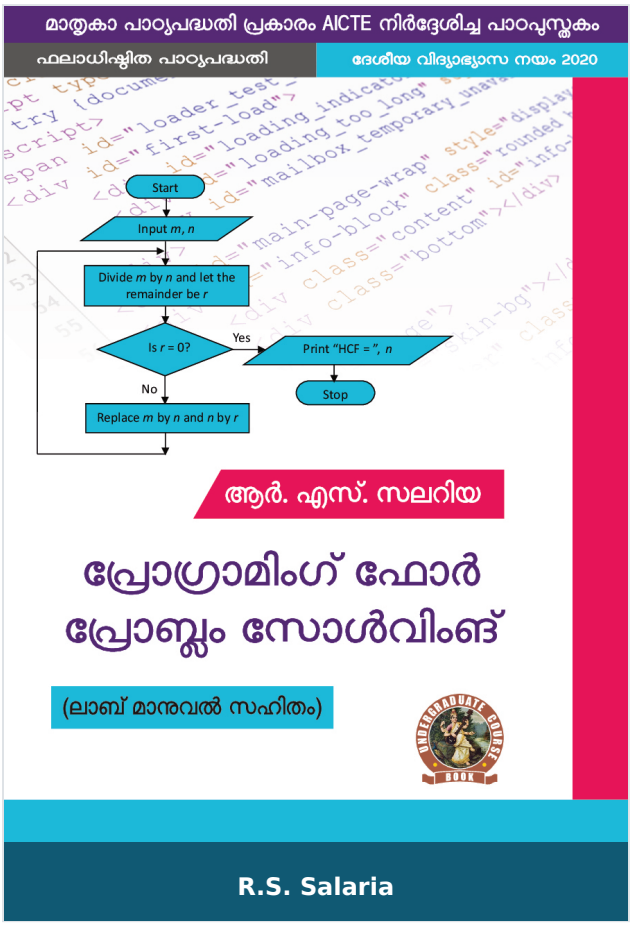
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Programming for problem solving (with Lab Manual)

Author :	R.S. Salaria
ISBN 13 :	978-93-55381-32-3
ISBN 10 :	9355381328
E-ISBN 13 :	978-93-55381-32-3
Edition :	1
Pages :	404
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Book Store, Ebooks, Malayalam Books
Condition Type :	New
Country Origin :	India

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.

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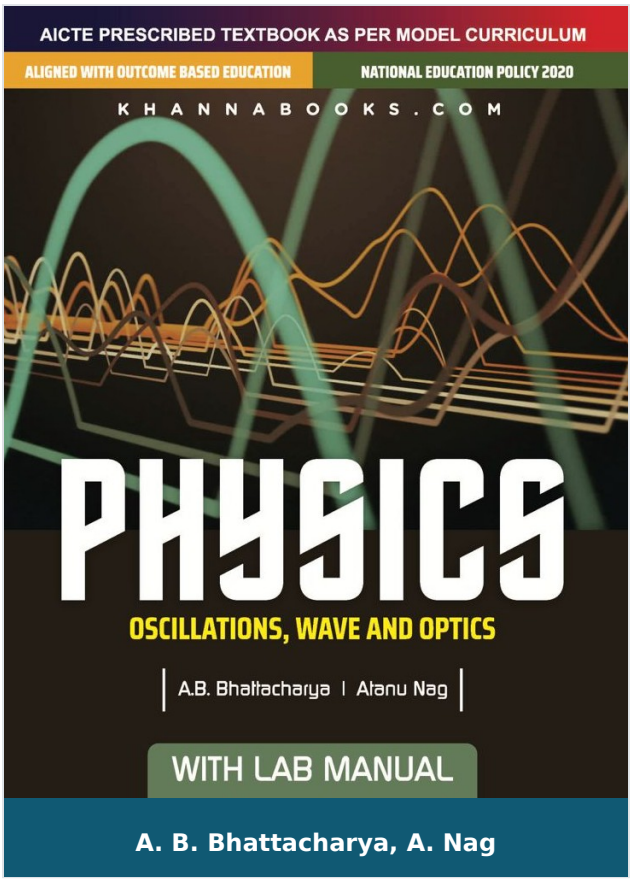
R.S. Salaria

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. </p

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Physics (Oscillations, Waves and Optics) With Lab Manual

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-91505-13-4
ISBN 10 :	9391505139
E-ISBN 13 :	978-93-91505-13-4
Edition :	1
Pages :	272
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Ebooks
Condition Type :	New
Country Origin :	India

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For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes

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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 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

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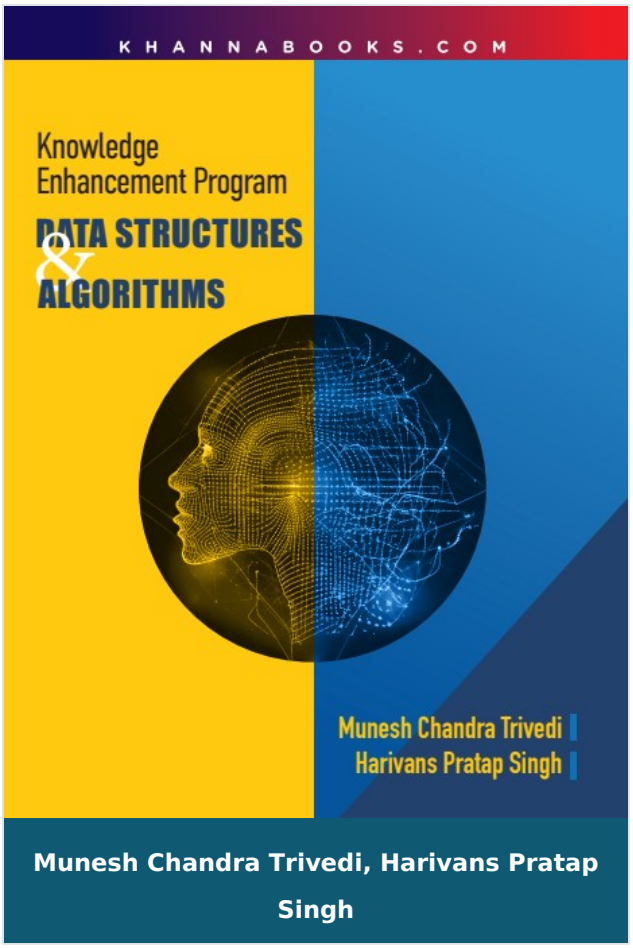
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received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and 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.

A. Nag

A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.



Data Structures & Algorithms (Knowledge Enhancement Program)

Author :	Munesh Chandra Trivedi, Harivans Pratap Singh
ISBN 13 :	978-93-55385-18-5
ISBN 10 :	9355385188
E-ISBN 13 :	978-93-55385-18-5
Edition :	1
Pages :	660
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 725.00
Categories :	Computer Science Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

My Book of Data Structures and Algorithms in a comprehensive and learner-friendly guide crafted for students, professionals, and aspirants preparing for GATE, competitive coding, and IT interviews. It serves as both an academic companion and a practical reference manual for mastering the foundational and advanced concepts of data structures and algorithm design. Rooted in real-world problem-solving, the book seamlessly blends theoretical clarity with hands-on implementation across languages like C, C++, Java and Python. Designed in alignment with university syllabi and modern industry requirements, this book is ideal for readers at all levels- from engineering undergraduates to working professionals aiming to sharpen their algorithmic thinking.

KEY FEATURES OF THE BOOK

- Complete and Structured Coverage
- Concept-Building through Intuition and Examples
- Programming Language Support
- GATE, Coding Interviews & Competitive Programming Ready
- Problem-Solving and Hands-On Practice
- Core Topics Covered in Detail
- Time and Space Complexity Focused
- Visual Learning Aids
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- LINKED LIST
- STACK
- QUEUE
- GRAPH
- TREE AND TRIES

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, 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

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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.

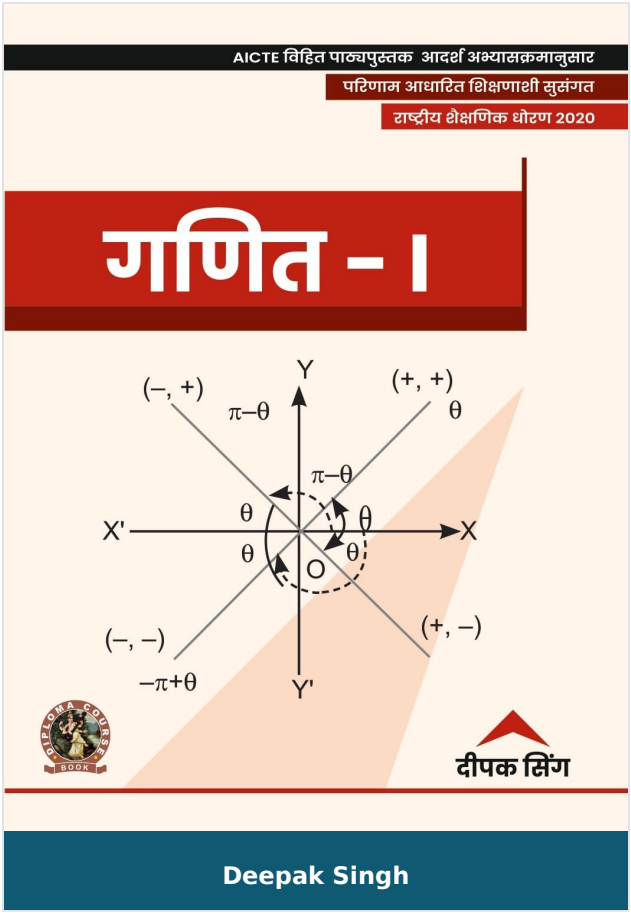
Harivans Pratap Singh

Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.

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Mathematics-I

Author :	Deepak Singh
ISBN 13 :	978-93-55380-45-6
ISBN 10 :	9355380453
E-ISBN 13 :	978-93-55380-45-6
Edition :	First
Pages :	188
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Marathi Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book

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

· Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

· Students and teacher centric subject materials included in book with balanced and chronological manner.

· Figures, tables and mathematical equations are inserted to improve clarity of the topics.

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

· Comprehensive synopsis of formulae for a quick revision of the basic principles.

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Author

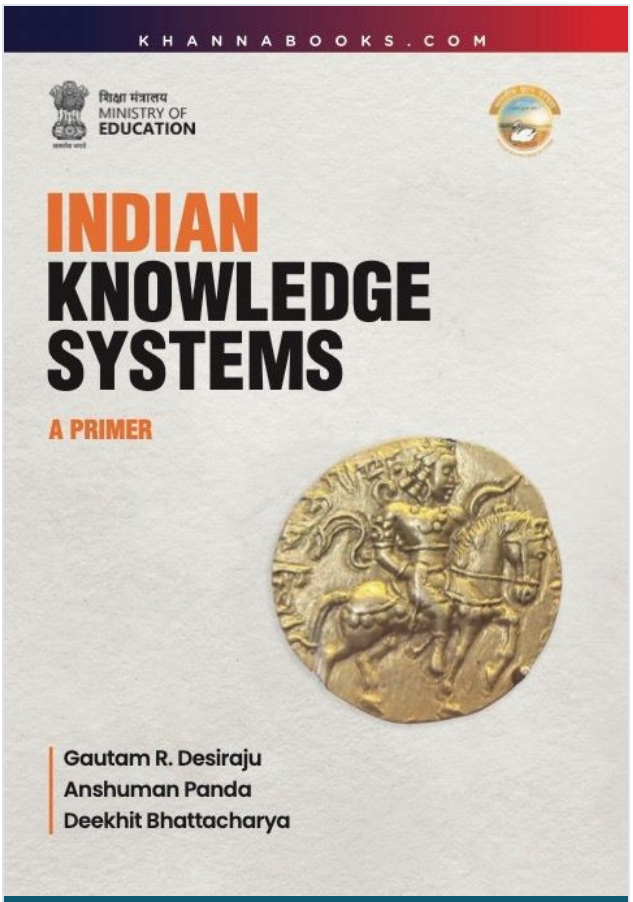
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Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya

Indian Knowledge System- A Primer

Author :	Gautam R. Desiraju, Anshuman Panda, Deekhit Bhattacharya
ISBN 13 :	978-93-09437-26-7
ISBN 10 :	930943726X
E-ISBN 13 :	978-93-09437-26-7
Edition :	First
Pages :	200
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	New Arrivals, Book Store, Education & Knowledge Systems
Condition Type :	New
Country Origin :	India

Product Description

The subject of Indian Knowledge Systems (IKS) has seized the attention of educationists, policy makers and administrators in universities and other teaching institutions. IKS has now entered the mainstream discourse and is the topic of discussion among both students and teachers.

The purpose of this introductory text, Indian Knowledge Systems: A Primer, is to present a perspective of an educational system that propelled our ancient country into a position of unparalleled and largely unrivalled position of economic and military superiority. This book explores how this actually came about, and sadly enough the roots of its decline, because of historical events that the people of this country were able to neither predict nor control.

This book also attempts to show how we can engineer a renaissance in IKS, in a country that is only now seeking its place in a new world order where paradigms of governance, war, and economies that have held sway for over 500 years are being overthrown with bewildering speed. At such a time, we hope that this introductory text will stoke a curiosity among young students who are at the threshold between school and college, and prompt them to ask whether they have it within themselves to be a part of this intellectual renaissance. Invoking Indians from the former generations, we are going to the distant past is, we believe, a worthwhile exercise because we are a part of a continuous civilization that shows little sign of real decline even after 5000 years.

This book is typeset in two vertical columns. The text on the left-hand side is typical curriculum material and may be the subject of quizzes, tests and examinations. The material on the right-hand side is extra, supporting text, that will hopefully enhance the enjoyment of the left-hand side with its illustrations, and the audio and video links. We urge teachers not to consider the right-hand side information as material suitable for tests and examinations, as this was not the intent of introducing the right-hand side

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column.

We trust this book will be of interest to students and teachers and that our perspective on IKS will impel them to seek new avenues towards its study.

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- What is Systems?
- What is IKS?
- Bhartiya Civilizational Reawakening

Author

Gautam R. Desiraju

Gautam R. Desiraju

Anshuman Panda

Anshuman Panda

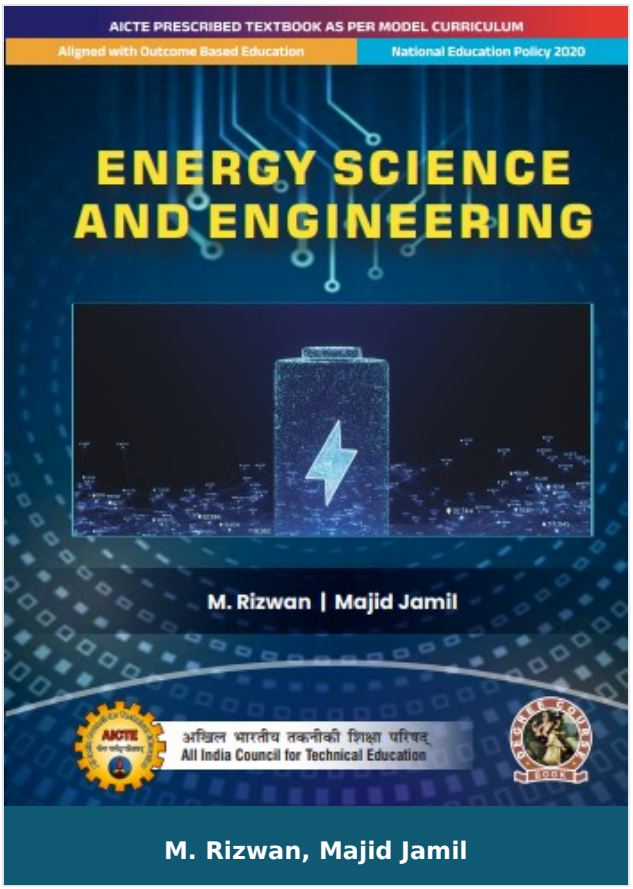
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Energy Science and Engineering

Author :	M. Rizwan, Majid Jamil
ISBN 13 :	978-93-55385-14-7
ISBN 10 :	9355385145
E-ISBN 13 :	978-93-55385-14-7
Edition :	First
Pages :	180
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 348.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

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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