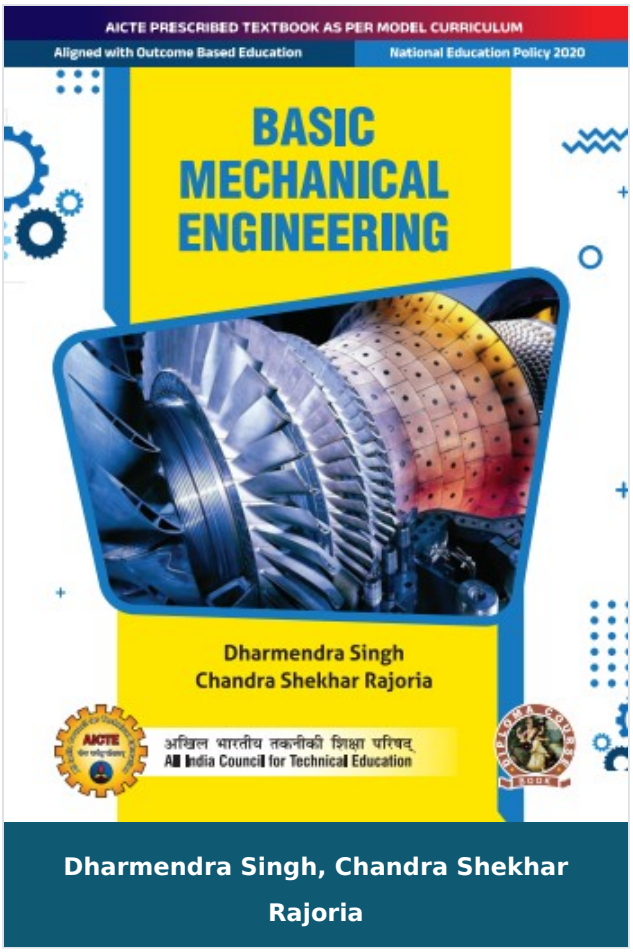

Basic Mechanical Engineering

Author :	Dharmendra Singh, Chandra Shekhar Rajoria
ISBN 13 :	978-93-55387-53-0
ISBN 10 :	9355387539
E-ISBN 13 :	978-93-55387-53-0
Edition :	First
Pages :	280
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 528.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Basic Mechanical Engineering

This book familiarizes the students with different domains of Mechanical Engineering. It provides an exposure of basic science to the engineering students, the fundamentals of Mechanical Engineering systems as well as enables them to get and insight of the subject. The book covers the basic thermodynamic principles including heat transfer, thermal power plant systems, steam turbines, condensers, cooking towers, internal combustion engines and refrigeration. It also covers the basics of material science, manufacturing process, machine tools and their mechanisms with their application in engineering problems. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per the National Education Policy (NEP) 2020.

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.
- 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.

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- 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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- Steam Turbines, IC Engines and Refrigeration
- Materials and Manufacturing Processes
- Machine Tools and Machining Processes
- References for Further Learning
- CO and PO Attainment Table
- Index

Author

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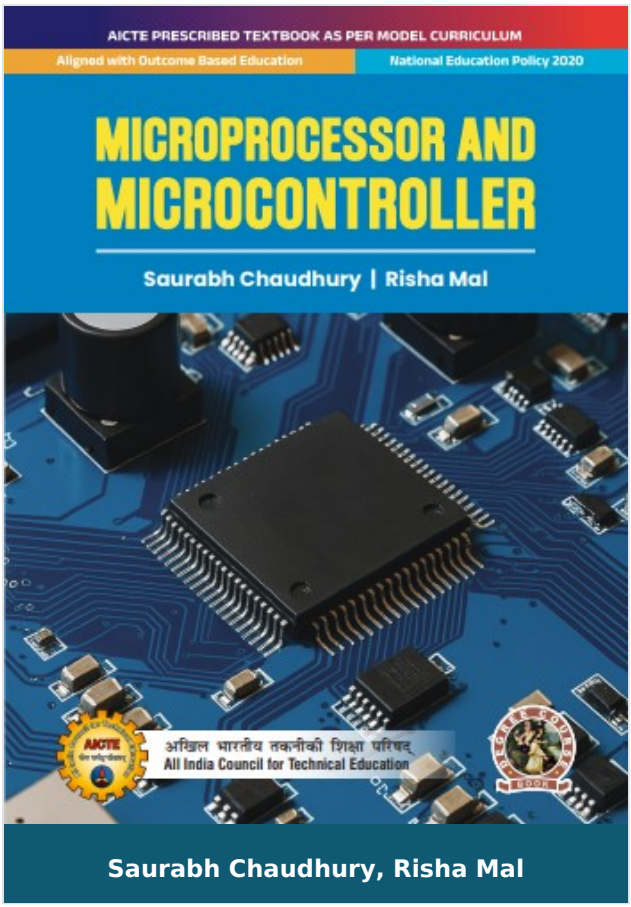

Microprocessor and Microcontroller

Author :	Saurabh Chaudhury, Risha Mal
ISBN 13 :	978-93-55385-11-6
ISBN 10 :	9355385110
E-ISBN 13 :	978-93-55385-11-6
Edition :	First
Pages :	308
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 548.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Microprocessor and Microcontroller

This book aims at providing the readers specially, the second-year undergraduate students a thorough knowledge of microprocessors and microcontrollers in a best possible way. Syllabus of this book is as per the AICTE model of curriculum, following National Education Policy, 2020. Each chapter of the book is written in a very lucid manner so as to understand the underlying concepts easily with explanatory examples followed by review questions, exercises and QR codes of online links and other learning resources. The book begins with a brief history on the evolution of computers and processors for making the subject interesting. Further, starting from the very basic microprocessor 8085 and the basic microcontroller 8051, the book gradually progresses towards advanced microprocessors and microcontrollers in the most appropriate manner.

Salient Features:

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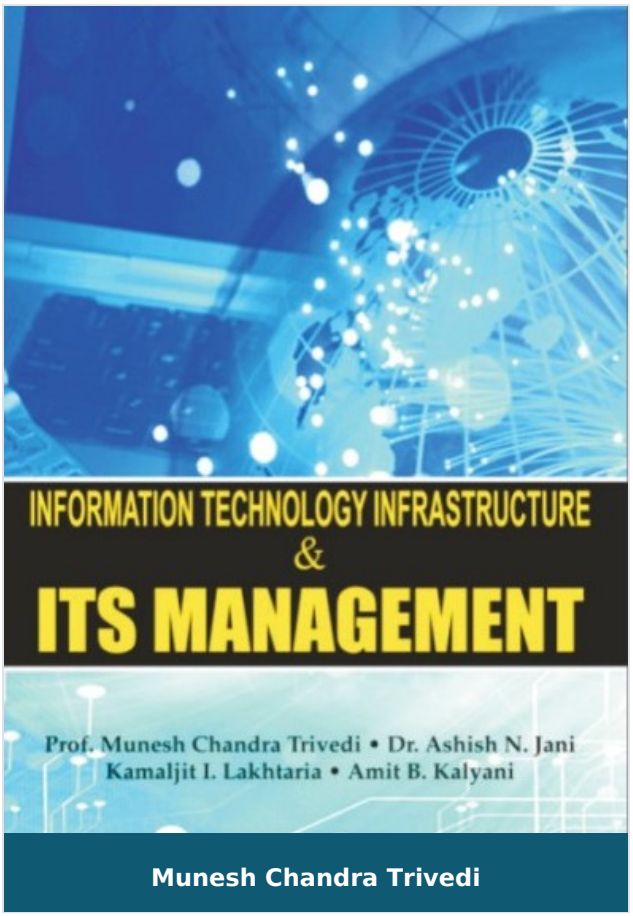

Information Technology Infrastructure & Its Management

Author :	Munesh Chandra Trivedi
ISBN 13 :	978-93-80016-31-3
ISBN 10 :	938001631X
E-ISBN 13 :	978-93-80016-31-3
Edition :	1
Pages :	292
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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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 IT infrastructure & Its management, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.

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- Service Support Process
- Storage Management
- Security Management
- Legal Issues for E-Business
- Emerging Trends in IT

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.

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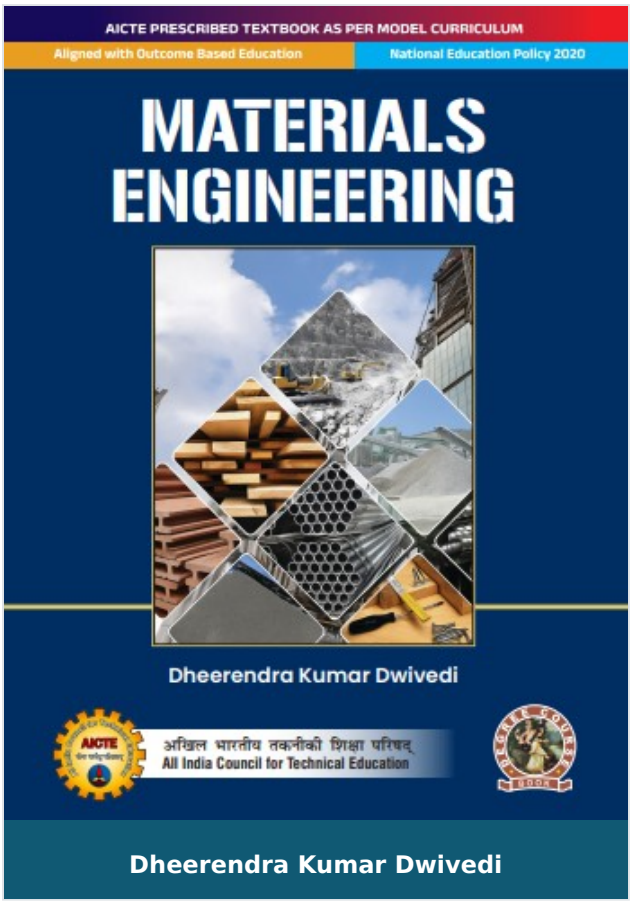

Materials Engineering

Author :	Dheerendra Kumar Dwivedi
ISBN 13 :	978-93-55389-88-6
ISBN 10 :	9355389884
E-ISBN 13 :	978-93-55389-88-6
Edition :	First
Pages :	316
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Materials Engineering

Materials play very important in development of efficient and reliable products, and systems leading to the improved life of society. Material affects the design and manufacturing of products and systems significantly. Therefore, it is extremely important for mechanical, production, manufacturing and material engineers to have a systematic understanding on fundamental of material science affecting microstructure and mechanical properties coupled techniques and approaches available to modify and improve properties as per need of application. The book entitled “Materials Engineering” developed as per model curriculum of AICTE for 4th semester student of subject Materials Engineering

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of eads 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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- Phase Diagram and Metallurgical Transformation
- Hear Treatment of Steel
- Common Engineering Metals: Mechanical Properties and Manufacturing
- Unit Summary
- Exercises
- Practical
- Know More
- References and Suggested Readings

Author

Dheerendra Kumar Dwivedi

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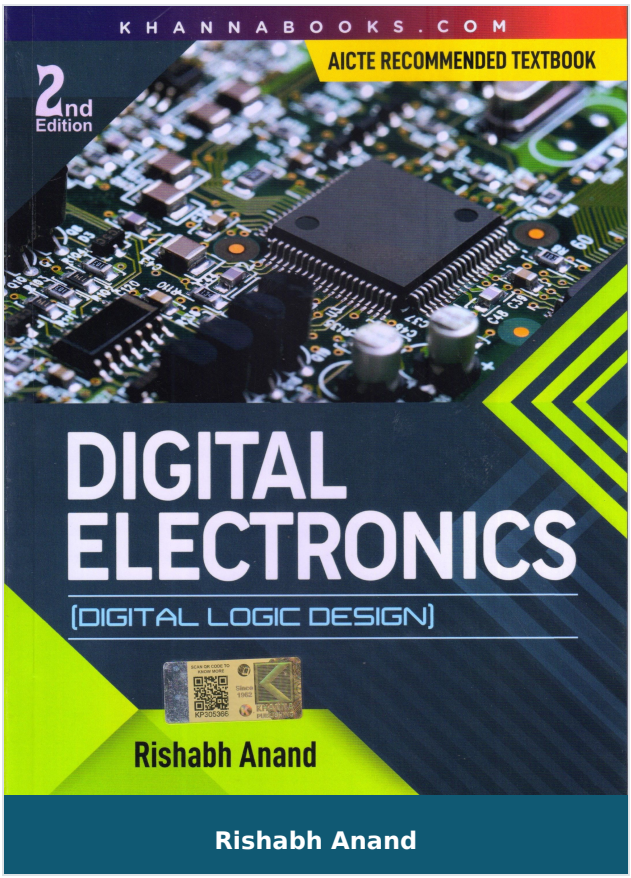

Digital Electronics

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

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Product Description

The book covers the complete syllabus of subject as suggested by most of the universities in India. Proper balance between mathematical details and qualitative discussion. Subject matter in each chapter develops systematically from inceptions. Large number of carefully selected worked examples in sufficient details. Each chapter of the book is saturated with much needed test supported by neat and self-explanatory diagrams to make the subject self-speaking to a great extent. No other reference is required. Ideally suited for self-study.

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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

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.

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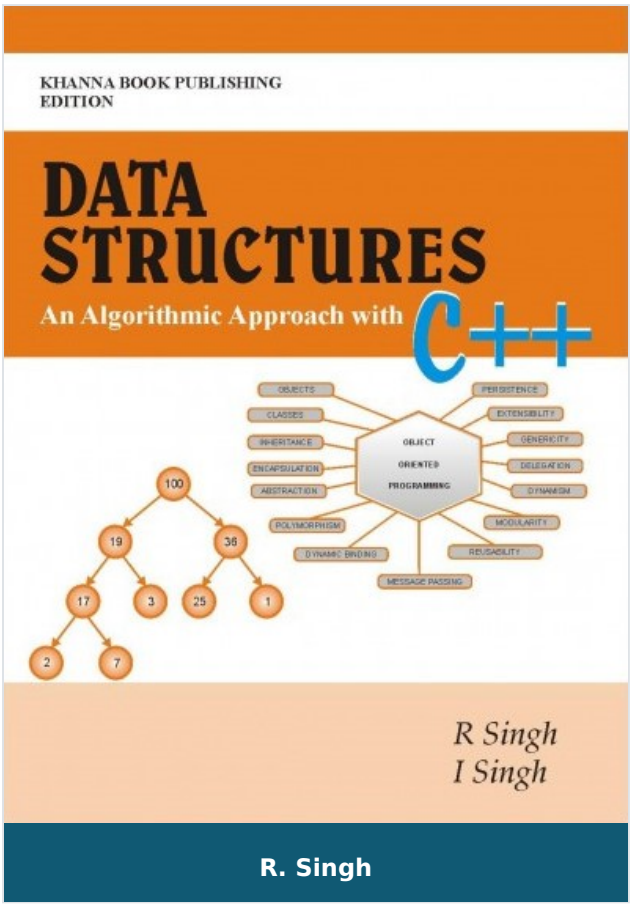

Data Structures - An Algorithmic Approach with C++

Author :	R. Singh
ISBN 13 :	978-93-80016-85-6
ISBN 10 :	9380016859
E-ISBN 13 :	978-93-80016-85-6
Edition :	1
Pages :	940
Type of book :	Physical
Year :	2010
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of data structures. Its approach is explanatory and language is lucid and communicable. Each and every data structure described with the help of its pictorial representation, algorithms, and implementation in C++ programming to have clear ideas. It contains lucid presentation of each and every operation that can perform on data structures.

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- Algorithm Design and Complexity
- Arrays, Pointers and Records
- Linked Lists
- Stacks
- Queues
- Trees
- Search Trees
- Heaps
- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management

Author

R. Singh

R. Singh "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "

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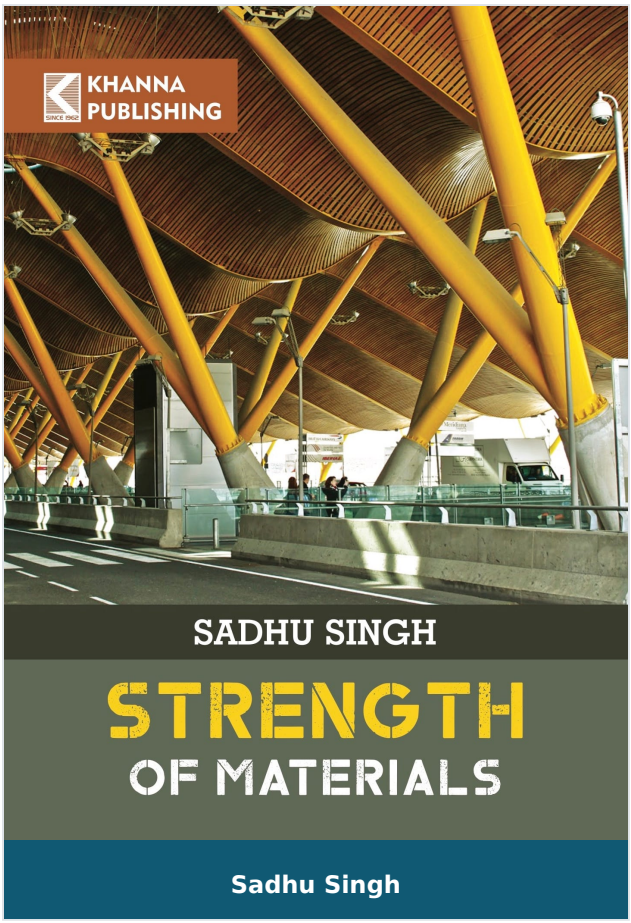

Strength of Materials

Author :	Sadhu Singh
ISBN 13 :	978-93-81068-80-9
ISBN 10 :	9381068801
E-ISBN 13 :	978-93-81068-80-9
Edition :	First
Pages :	600
Type of book :	Physical
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 425.00
Categories :	Civil Engineering, 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

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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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

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19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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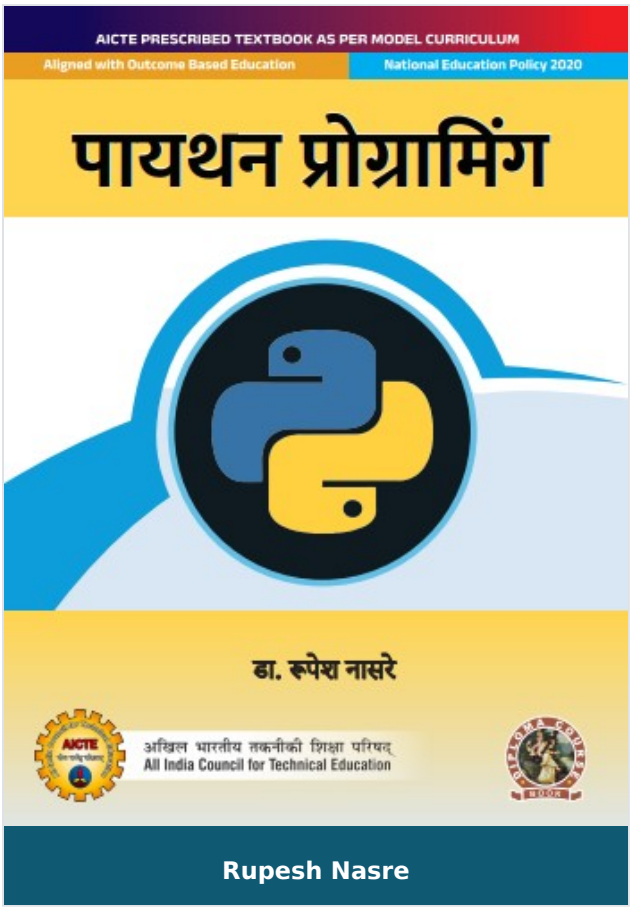

Python Programming

Author :	Rupesh Nasre
ISBN 13 :	978-93-55389-29-9
ISBN 10 :	9355389299
E-ISBN 13 :	978-93-55389-29-9
Edition :	First
Pages :	148
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	AICTE Prescribed Textbooks, Hindi Books
Condition Type :	New
Country Origin :	India

Product Description

Python Programming

Python is the most popular programming language today. This book gently guides you to explore the world of python programming via simple examples. The focus of this book is on problem solving rather than introducing syntax. The problems have been carefully designed to introduce concepts, and to also keep the readers interested. Towards the second half, the book provides a flavor of the real-world applications, expanding the view of the learners.

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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- 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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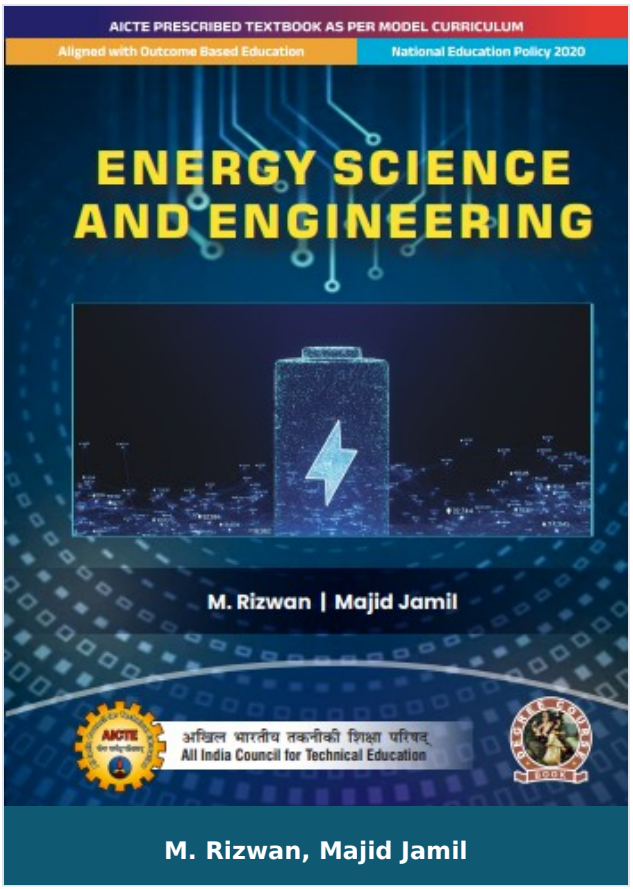

Energy Science and Engineering

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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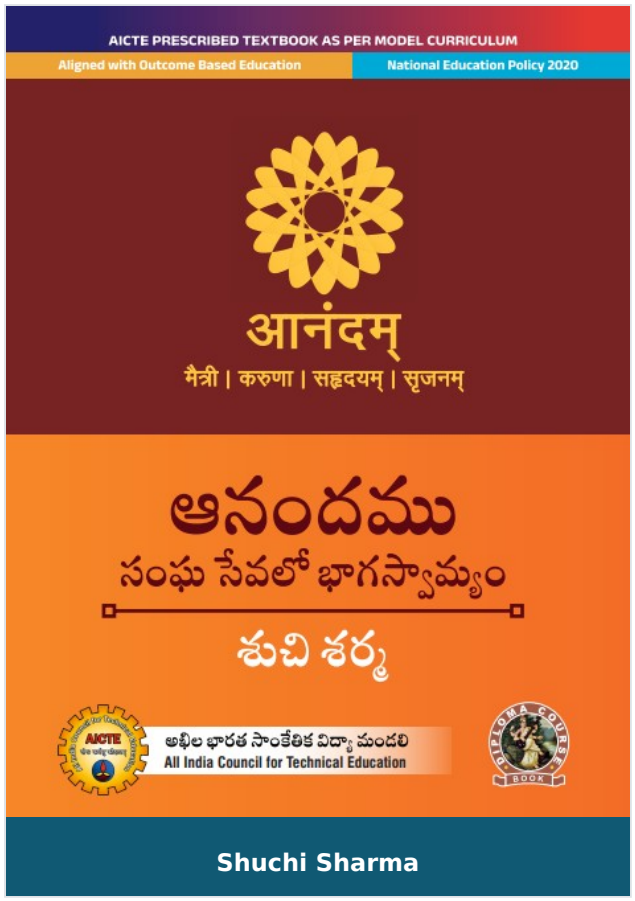

Aanandam An Act of Community Service

Author :	Shuchi Sharma
ISBN 13 :	978-93-55383-40-2
ISBN 10 :	9355383401
E-ISBN 13 :	978-93-55383-40-2
Edition :	First
Pages :	88
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	AICTE Prescribed Textbooks, Telugu Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Aanandam An Act of Community Service

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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