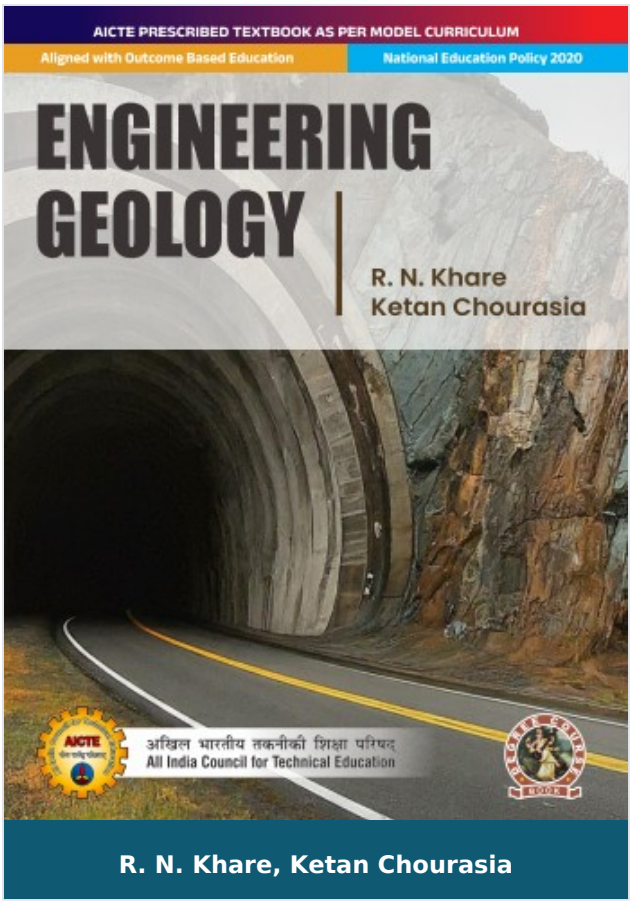

Engineering Geology

Author :	R. N. Khare, Ketan Chourasia
ISBN 13 :	978-93-55384-66-9
ISBN 10 :	9355384661
E-ISBN 13 :	978-93-55384-66-9
Edition :	First
Pages :	396
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 748.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Engineering Geology

The book titled “Engineering Geology” is an outcome of the rich experience of our teaching of basic Engineering Geology courses. The initiation of writing this book is to expose applied science to the civil, mining and metallurgical engineering students; the fundamentals of geology will enable them to get an insight of the subject. Keeping in mind the purpose of wide coverage as well as to provide essential supplementary information, we have included the topics recommended by AICTE, in a very systematic and orderly manner throughout the book. Efforts have been made to explain the fundamental concepts of the subject in the simplest possible way.

Salient Features:

- **Comprehensive Coverage**: Provides a thorough understanding of engineering geology principles, vital for tackling real-world challenges.
- **Practical Applications**: Bridges theory with practice, equipping students with the skills needed to address geological issues in professional settings.
- **Visual Enhancements**: Rich with illustrations, diagrams, and photographs to facilitate deeper comprehension of geological concepts.
- **Case Studies**: Offers real-life examples and case studies to contextualize theoretical knowledge and enhance learning.
- **Exercises and Assessments**: Includes a variety of exercises and assessments to reinforce learning and gauge understanding.
- **Know More**: Designed to supplement information beyond the syllabus for the beneficial of users of the book.

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- Geological Investigations for Utility Structures
- Geophysical Investigations in Civil Engineering
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- References for Further Learning

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Author

R. N. Khare

Dr. R. N. Khare Principal & Professor Department of Civil Engineering Vishwavidyalaya Engineering College Ambikapur

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Concrete Technology: Theory and Practice

Author :	Sasankasekhar Mandal, Vishwajit Anand, Sushil Kumar Agarwala
ISBN 13 :	978-93-55382-65-8
ISBN 10 :	9355382650
E-ISBN 13 :	978-93-55382-65-8
Edition :	First
Pages :	212
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 398.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Concrete Technology: Theory and Practice

This book is intended to provide students and professionals, a deep understanding of concrete technology. It explains the fundamental concepts, material characteristics and related laboratory experiments on concrete and its ingredients. It also includes latest relevant provisions of Indian standards such as IS 456, IS 10262, IS 383, IS 2386 and IS 516.

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.
- 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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Author

Sasankasekhar Mandal

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Prof. Sushil Kumar Agarwala Former Professor, Department of Civil Engineering, IIT Roorkee, India Dr.

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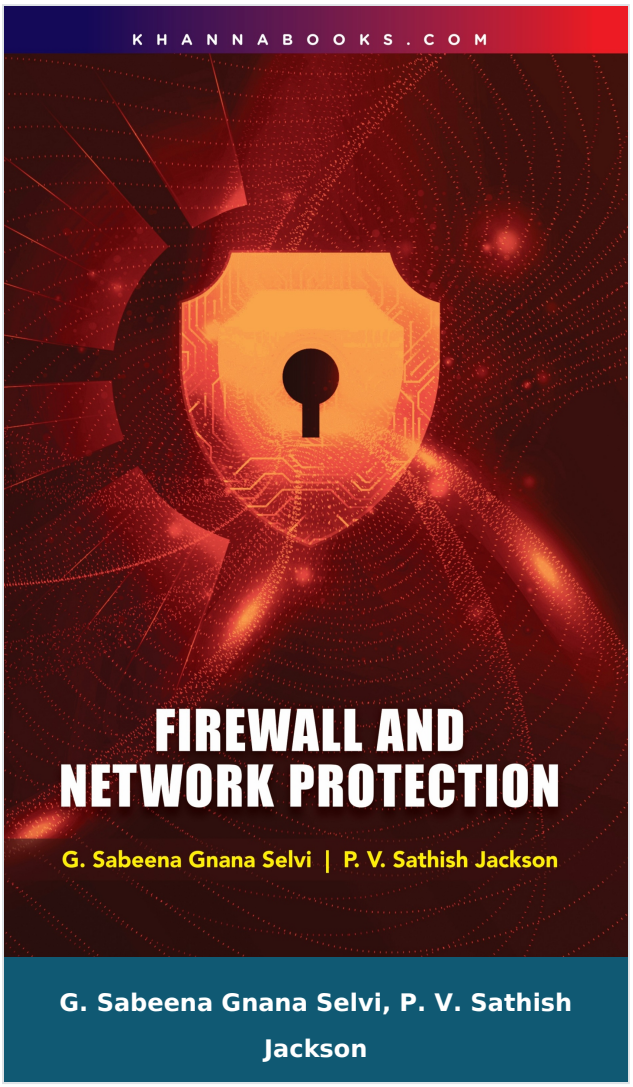

G. Sabeena Gnana Selvi, P. V. Sathish Jackson

Firewall And Network Protection

Author :	G. Sabeena Gnana Selvi, P. V. Sathish Jackson
ISBN 13 :	978-93-55382-86-3
ISBN 10 :	9355382863
E-ISBN 13 :	978-93-55382-86-3
Edition :	First
Pages :	104
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 260.00
Categories :	New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

Firewall And Network Protection

This book offers a comprehensive exploration of modern network security, establishing a robust foundation for protecting digital assets in today’s threat landscape. It begins by grounding readers in the essential security principles—Confidentiality, Integrity, and Availability (CIA Triad)—and outlines the current spectrum of complex threats, including ransomware and zero-day attacks, preparing readers to understand the adversary.

The content moves seamlessly from foundational theory to practical implementation. It dedicates significant coverage to the mathematics of cryptography, analyzing both symmetric ciphers like AES and asymmetric systems like RSA and Diffie-Hellman, alongside practical case studies in cryptographic solutions. Crucially, the text provides an in-depth look at implementing layered defense controls, including Intrusion Detection Systems (IDS) and the core role of Firewalls as network access controls. It details various firewall types (Packet Filtering, Stateful Inspection, and Proxy) and best practices for rule management and network segmentation. Furthermore, the book addresses securing emerging technologies such as Cloud, IoT, and Web Applications.

This resource is an invaluable guide for students in Computer Science and Cybersecurity, as well as IT and security professionals who need to design, implement, and maintain resilient security architectures in an evolving digital world.

Salient Features

- **Foundational Security Principles**: Clearly covers the core security model, the CIA Triad (Confidentiality, Integrity, Availability), and expands on essential concepts like Accountability and Non-repudiation.
- **Symmetric/Asymmetric Crypto**: Provides detailed instruction on modern cryptographic algorithms, contrasting the performance of AES with the security

offered by RSA for practical data protection.

- **Firewall Deep Dive**: Explores the characteristics and necessity of effective firewalls, detailing different types—Packet Filtering, Stateful Inspection, and Proxy—for robust perimeter defense.
- **Practical Network Defense**: Focuses on implementing layered security controls, covering the deployment and management of Intrusion Detection Systems (NIDS/HIDS) and VPNs for secure remote access.
- **Malware and Attack Taxonomy**: Categorizes and explains major network threats like DDoS, Phishing, IP Spoofing, and sophisticated malware (Ransomware), providing context for effective defense strategies.
- **Emerging Tech Security**: Addresses the unique security challenges in contemporary environments, dedicating chapters to securing Cloud infrastructure, IoT devices, and Web Applications (WAF, HSTS).
- **Cryptographic Case Studies**: Includes analysis of both successful and failed cryptographic solutions, offering essential lessons learned and promoting the use of modern, strong cryptographic protocols.

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- : Securing the Internet and Emerging Technologies
- : Combating Malicious Software and Attacks
- : Intrusion Detection and Firewalls

Author

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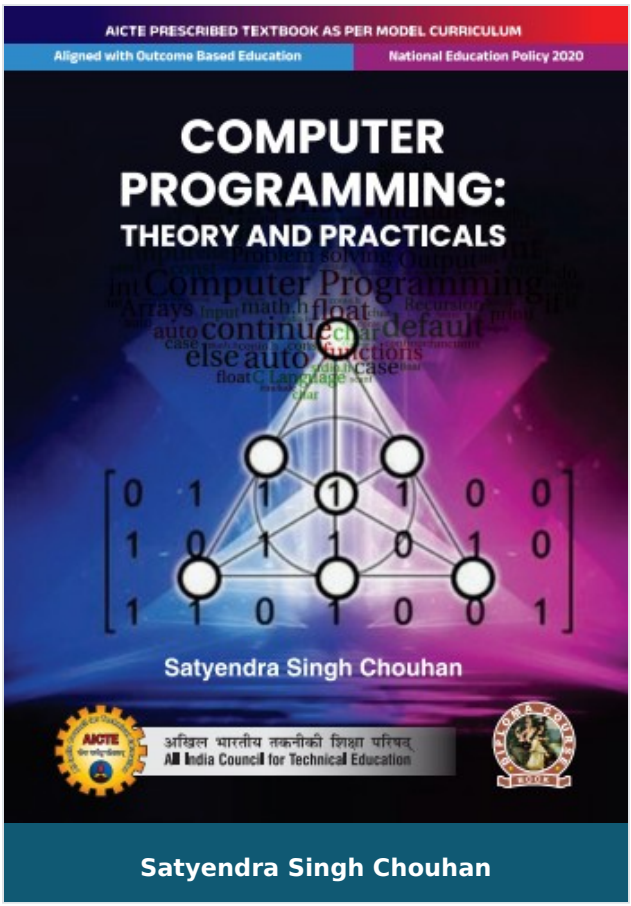

Computer Programming: Theory and Practicals

Author :	Satyendra Singh Chouhan
ISBN 13 :	978-93-55382-67-2
ISBN 10 :	9355382677
E-ISBN 13 :	978-93-55382-67-2
Edition :	First
Pages :	188
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Computer Programming: Theory and Practicals

This book is written to provide fundamental knowledge of problem-solving using c programming language for beginners. It employs real-life examples for better understanding. It covers topics such as the foundation of c programming, input-output in c, control statements, Arrays and functions, and recursion & recursive solutions. This book is an amalgamation of theoretical understanding and practical applications.

This book includes visuals and step-by-step solutions for explaining the key concepts. This book is aimed at diploma and undergraduate engineering students to enhance their problem-solving skills.

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

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

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Author

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Dr. Satyendra Singh Chouhan Assistant Professor, Department of Computer Science and Engineering

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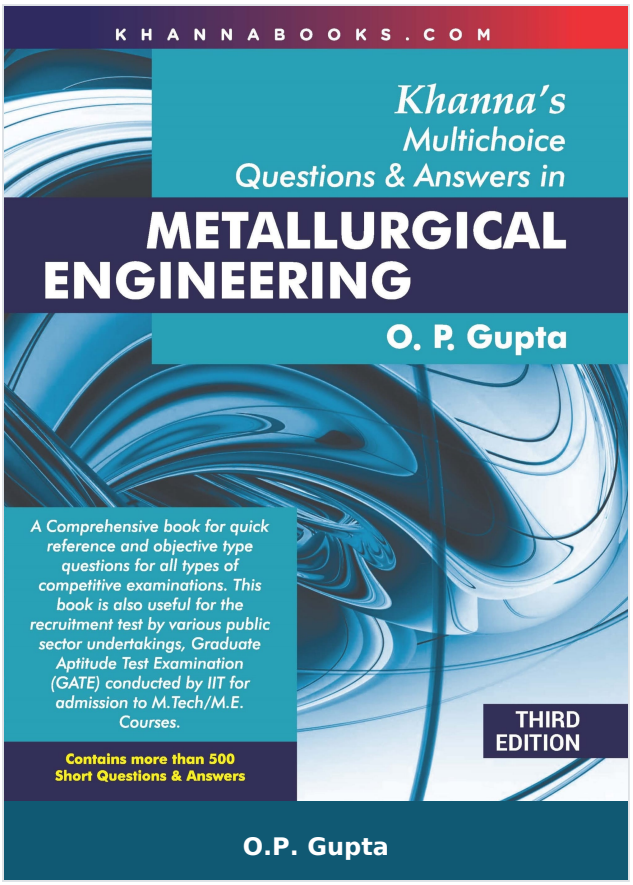

Khanna's Multichoice Questions & Answers in Metallurgical Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-11-9
ISBN 10 :	9386173115
E-ISBN 13 :	978-93-86173-11-9
Edition :	3
Pages :	1122
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	OBJECTIVE TYPE BOOKS, Metallurgical 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 meant for diploma & degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs. This book has been structured in three section. First section contains multiple choice type questions of various subjects of metallurgical engineering. Second section contains chapter wise question of GATE (Graduate Aptitude Test in Engineering) from 1991 to 2016. Third section contains SHORT QUESTIONS & ANSWERS in METALLURGICAL ENGINEERING. Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q&A of GATE-2017. This book has been designed to serve as "Hand Book of Metallurgical Engineering" which will be useful for various competitive examinations for recruitment in various public sector & Private Sector companies as well as for GATE Examination. Question have been arranged subject wise and answers are given at the bottom of the page.

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- Refractory Technology
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- Metallurgical Testing &Inspection
- Metallurgical Analysis
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- Miscellaneous Questions
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- Metallurgical Thermodynamics
- Metallurgical Kinetics
- Miscellaneous Questions
- GATE– 2017
- Section- C Short Questions & Answers in Metallurgical Engineering
- Glossary

Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T

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kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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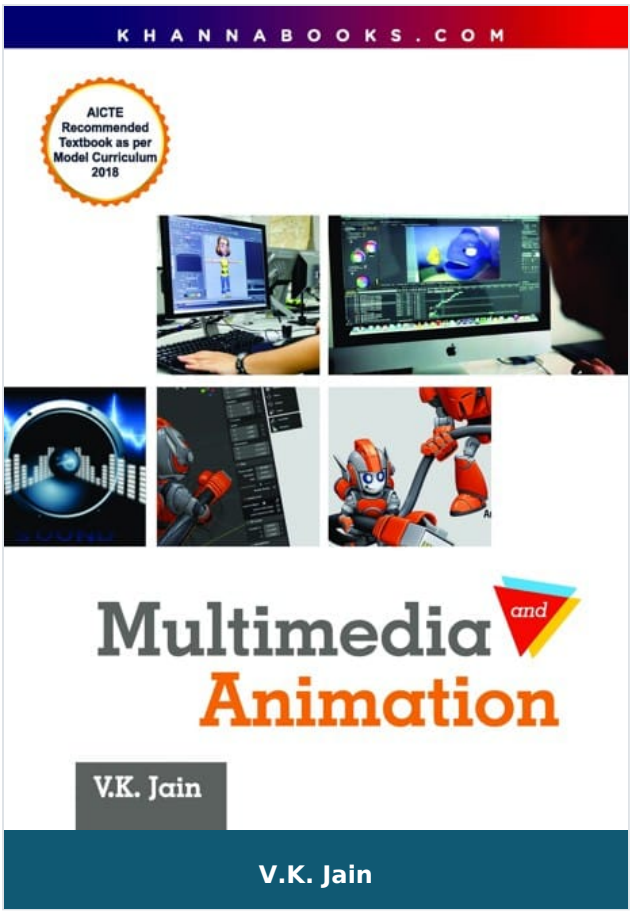

Multimedia and Animation

Author :	V.K. Jain
ISBN 13 :	978-93-86173-12-6
ISBN 10 :	9386173123
E-ISBN 13 :	978-93-86173-12-6
Edition :	First
Pages :	452
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

The overall goal of the book is to provide a broad understanding of multimedia systems and applications in an integrated manner. A user enjoys multimedia application only if all the pieces of the end-to-end solution fit together. This means that a multimedia application and its user interface must be developed in an integrated fashion with underlying multimedia middleware, operating systems, networks, security, and multimedia device. The book explains the fundamental concepts of storage, compression and decompression, and display technologies used for multimedia systems.

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- Chapter-11: Wireless Multimedia
- Chapter-12: Multimedia projects: Multimedia Skills

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

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was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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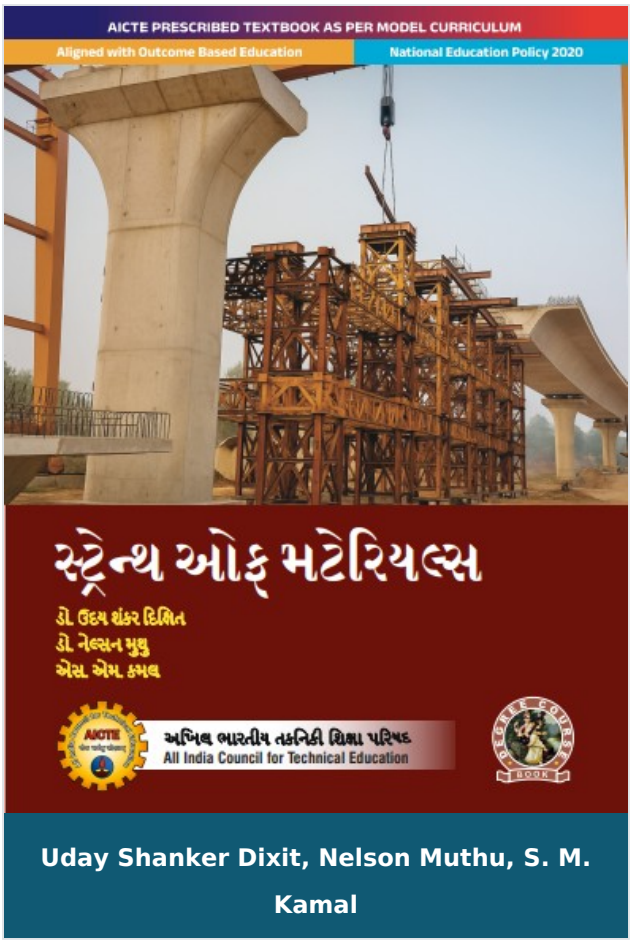

Uday Shanker Dixit, Nelson Muthu, S. M. Kamal

Strength of Materials

Author :	Uday Shanker Dixit, Nelson Muthu, S. M. Kamal
ISBN 13 :	978-93-55389-28-2
ISBN 10 :	9355389280
E-ISBN 13 :	978-93-55389-28-2
Edition :	First
Pages :	504
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 725.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Strength of Materials

This book on Strength of Materials follows so-called engineer’s approach. It is a suitable book for one-semester first course on Solid Mechanics or Strength of Materials for undergraduate students of engineering. The uniqueness of the book is that basic concepts have been covered in a lucid manner such that students can also be prepared to study a course on theory of elasticity (so-called mathematician’s approach) in later classes. There are sufficient number of exercise problems in this book, which prepare students to become practicing engineer or a researcher. The book also contains multiple choice questions. Content of the book, examples and exercise problems have been optimized. Thus, the learning output to effort ratio can be enhanced with the support of this book.

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.
- 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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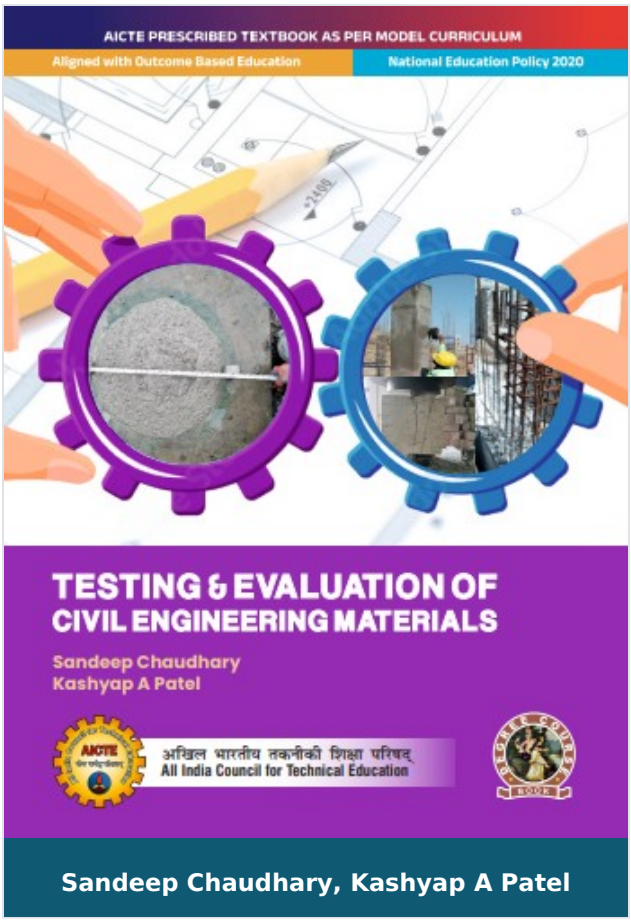

Testing & Evaluation of Civil Engineering Materials

Author :	Sandeep Chaudhary, Kashyap A Patel
ISBN 13 :	978-93-55384-31-7
ISBN 10 :	9355384319
E-ISBN 13 :	978-93-55384-31-7
Edition :	First
Pages :	196
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 358.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Testing & Evaluation of Civil Engineering Materials

This book contains an introduction to civil engineering materials and an advanced discussion on their testing and evaluation procedure for fourth semester students of undergraduate degree course. Main purpose of the book is to help the students identify suitable civil engineering materials as per their needs, through a systematic testing and evaluation procedure. The book is designed as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020.

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
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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

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- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
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- List of Tables
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- Emerging Civil Engineering Materials
- Introduction to Material Testing
- Standard Testing & Evaluation Procedures
- CO and PO attainment table
- Index

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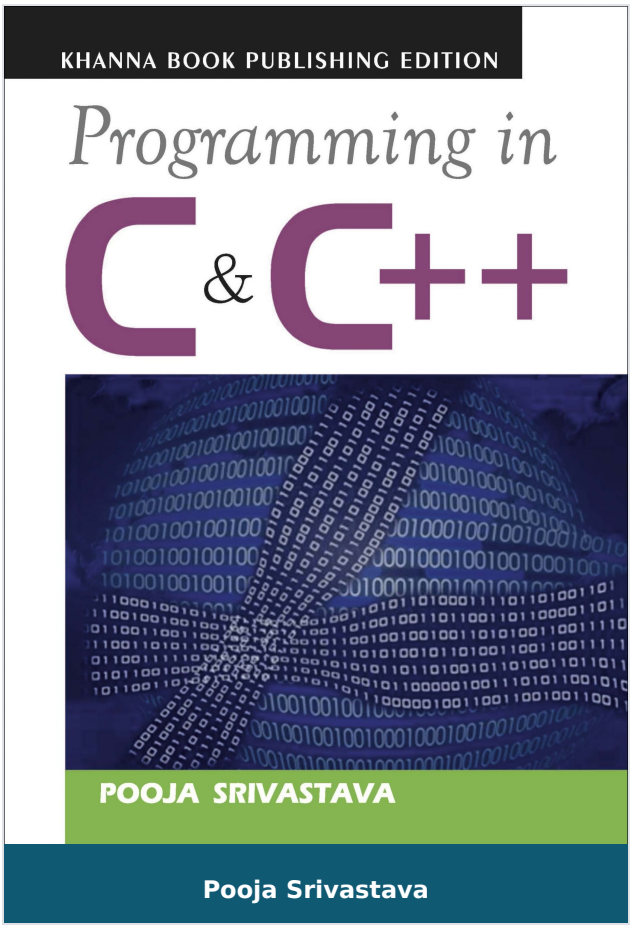

Programming in C & C++

Author :	Pooja Srivastava
ISBN 13 :	978-93-82609-24-7
ISBN 10 :	9382609245
E-ISBN 13 :	978-93-82609-24-7
Edition :	First
Pages :	336
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 275.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. The text uses sample programs, case studies, programming problems and many more pedagogical aids to enable better understanding of these languages. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book.

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- Operators
- Control Flow Statement
- Structure
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- Arrays & Strings
- Operator Overloading
- Ploymorphism
- Inheritance
- Pointers
- File Handling

Author

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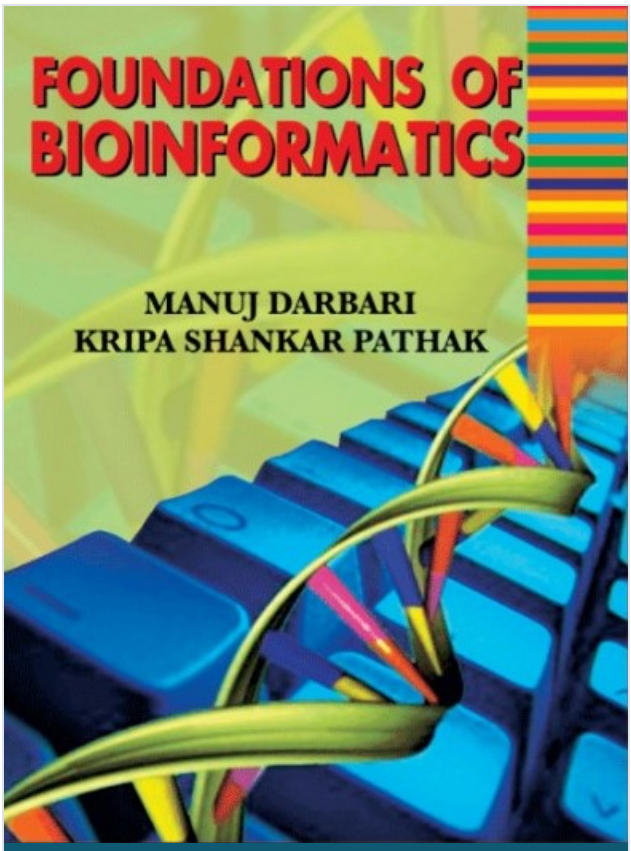

Manuj Darbari

Foundations of Bioinformatics

Author :	Manuj Darbari
ISBN 13 :	978-81-87325-36-9
ISBN 10 :	8187325364
E-ISBN 13 :	978-81-87325-36-9
Edition :	1
Pages :	145
Type of book :	Physical
Year :	2013
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 105.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

It gives me immense pleasure to introduce this book for engineering students. It covers the basic concepts of Bioinformatics which are beneficial to undergraduate as well as to post graduate students of pharmacy. In the first phase this book introduces about basics of biology and in second phase it deals with use of computers to store and code the biological terms in a proper predefined manner. This book also provides a better support to professionals dealing in the field of bioinformatics. There are various paper sets along with the previous years paper.

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- Bioinformatics
- The Diversity of Life Forms
- Proteins
- Nucleotide
- Data Searches and their Alignment Method
- B.Tech Papers and Sample Question Papers

Author

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Manuj Darbari received his ME in Electronics and Communication from MNNIT, Allahabad. He has done MBA from Lucknow University, and is undergoing PhD in Information Science and Technology from BIT, Mesra Ranchi. He has vast knowledge in the field of Electronics and latest issues in Information Technology, he has done CDAC Diploma in Advance Computing offered by CDAC Pune. He is presently working as Asst. Professor in Information Technolgy Department, BBDNITM, Lucknow. He is a member of IEEE (USA), IETE, CSI and ACM (USA). He is also recognized as a charted Engineer (India) by Institution of Engineering. "

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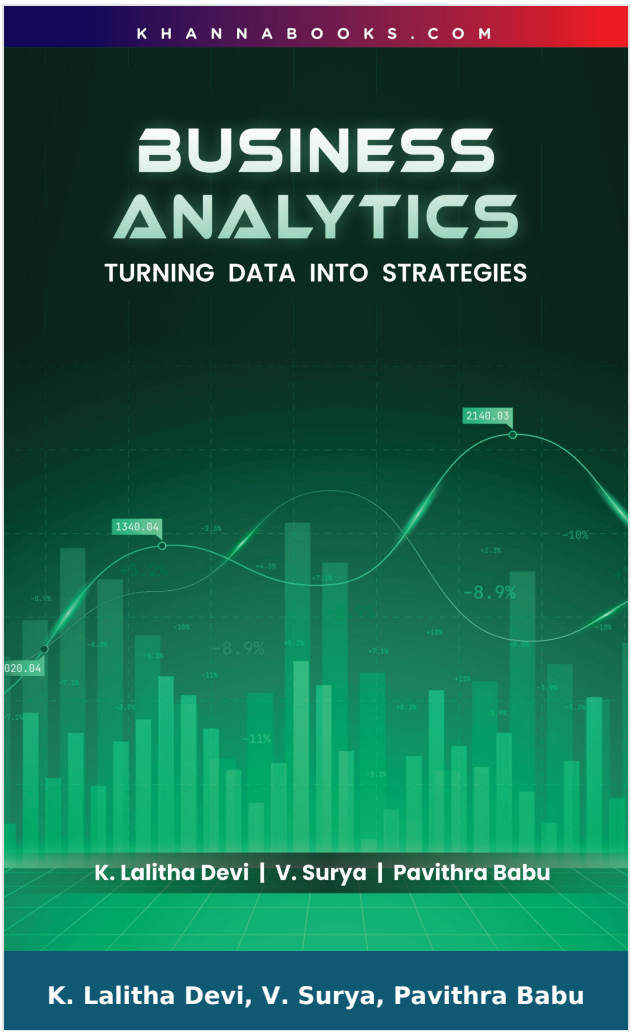

Business Analytics (Turning Data into Strategies)

Author :	K. Lalitha Devi, V. Surya, Pavithra Babu
ISBN 13 :	978-93-55389-61-9
ISBN 10 :	9355389612
E-ISBN 13 :	978-93-55389-61-9
Edition :	First
Pages :	152
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

This book serves as an essential guide for navigating the complex, data-driven world, focusing on the discipline of Business Analytics (BA). Titled "Business Analytics Turning Data into Strategies," it is specifically designed to equip professionals, analysts, and decision-makers with the knowledge to harness the immense power of data for informed and effective business strategies.

The core purpose is to provide a comprehensive understanding of BA concepts, methodologies, and applications, going beyond traditional reporting to leverage statistical models and predictive algorithms to uncover hidden patterns and optimize strategies. It explores the full spectrum of analytics, from Descriptive Analytics—understanding past trends—to Predictive Analytics—forecasting future outcomes, and the advanced practice of Prescriptive Analytics—optimizing decisions and recommending the best course of action.

Structured to balance theoretical concepts with practical insights and real-world applications, the book provides a clear roadmap for driving growth, efficiency, and innovation. It delves into modern topics crucial for competitive advantage, including Big Data Analytics, Machine Learning, and Artificial Intelligence. Whether you are a beginner seeking foundational knowledge or an experienced professional looking to refine skills, this resource will equip you with the tools and mindset to transform raw data into a strategic asset for sustainable success.

Salient Features:

• Full Analytics Spectrum: Explores the four major types of analytics—Descriptive, Diagnostic, Predictive, and Prescriptive—to help businesses understand what happened, why, and what action to take next.

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• Core Data Mining: Discusses foundational Data Mining concepts, including OLAP, Association Analysis, and Cluster Analysis to discover hidden patterns for effective decision optimization.

• Text & Web Analytics: Guides readers through techniques like Natural Language Processing and Sentiment Analysis to extract meaningful insights and trends from unstructured sources like social media and web data.

• Strategic Performance KPIs: Details the Business Performance Management cycle, covering the setting of objectives, monitoring of Key Performance Indicators (KPIs), and utilizing real-time dashboards.

• Industry Applications: Showcases practical applications of BA in various business functions, including Finance, HR, Operations, Retail, and Healthcare, to solve complex real-world challenges.

• Big Data & AI: Integrates discussions on high-volume, high-velocity Big Data (the 5 Vs) and the application of AI and Machine Learning algorithms for advanced predictive and prescriptive solutions.

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- Type of Digital Data
- Introduction to data Mining
- Transaction Processing
- Business Performance Management

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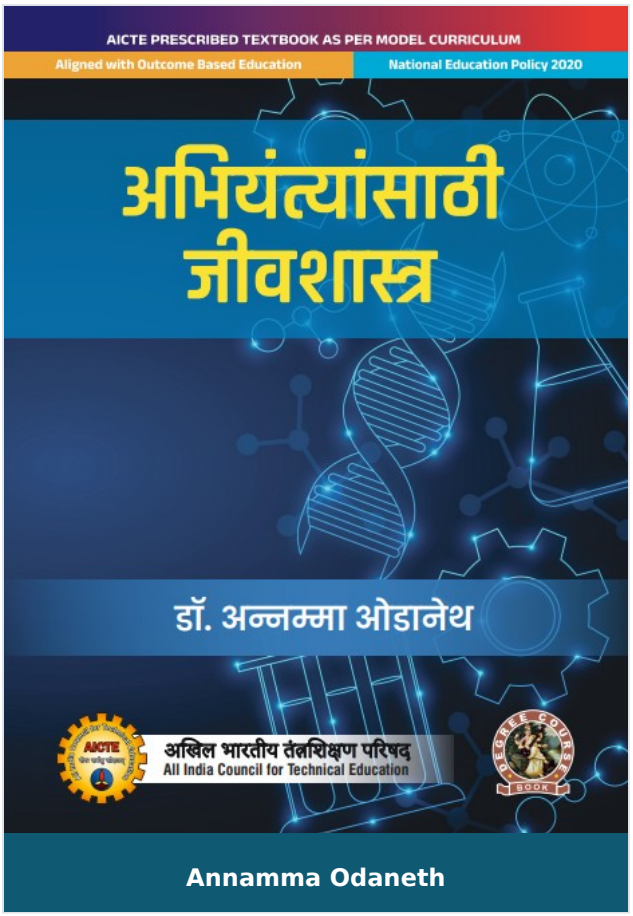

Biology for Engineers

Author :	Annamma Odaneth
ISBN 13 :	978-93-55386-93-9
ISBN 10 :	9355386931
E-ISBN 13 :	978-93-55386-93-9
Edition :	First
Pages :	408
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 648.00
Categories :	AICTE Prescribed Textbooks, Marathi Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Biology for Engineers

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