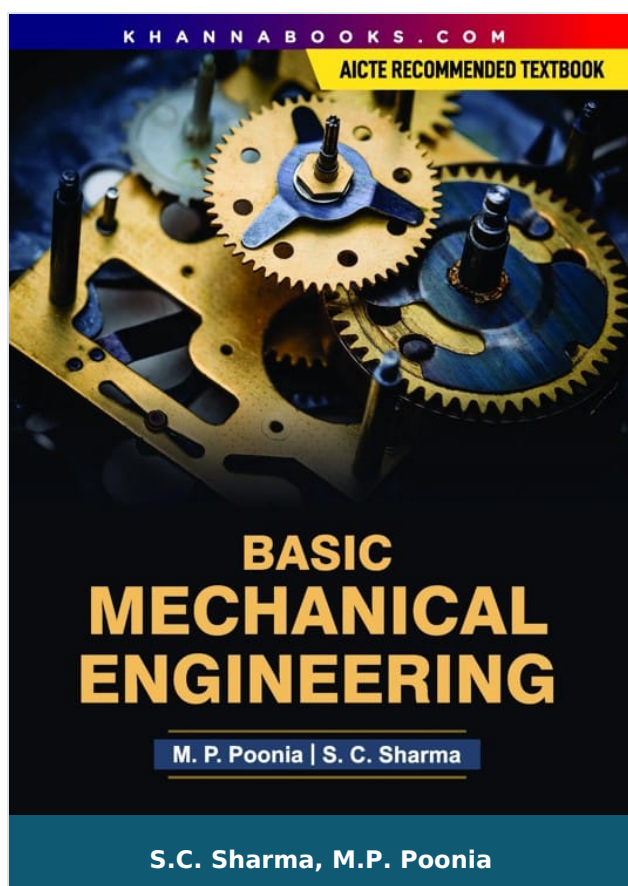




Basic Mechanical Engineering

Author :	S.C. Sharma, M.P. Poonia
ISBN 13 :	978-93-86173-33-1
ISBN 10 :	9386173336
E-ISBN 13 :	978-93-86173-33-1
Edition :	First
Pages :	792
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 648.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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

Product Description

This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering.

Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems.

The readers will find the book highly useful as a comprehensive text covering basic principles in simple language and easy to grasp formatting.

Table Of Contents

- Mechanics - An Introduction
- Transmission of Power
- Fundamentals of Thermodynamics and Heat Transfer
- Properties of Gases
- Properties of Steam
- Fuel and Combustion of Fuels
- Thermal Power Plants 1-Steam Boilers (Generators)
- Thermal Power Plants 2-Steam Engines, Turbines And Condenser
- Air Compressors
- Internal Combustion Engines (I.C Engines)
- Fuel System in I.C Engines
- Automobile Engineering
- Gas Turbines
- Refrigeration and Air Conditioning
- Hydraulic Pumps
- Hydraulic Devices
- Hydro Electric Power Plants
- Hydraulic Turbines
- Sources of Energy
- Engineering Materials Stress and Strain
- Manufacturing Process-Mechanical Working of Metals
- Pattern-Making Foundry and Casting
- Welding Engineering

- Tools, Jigs and Fixtures
- Machine Tools
- Automation and Robotics,
- Robotics
- Appendices
- Index

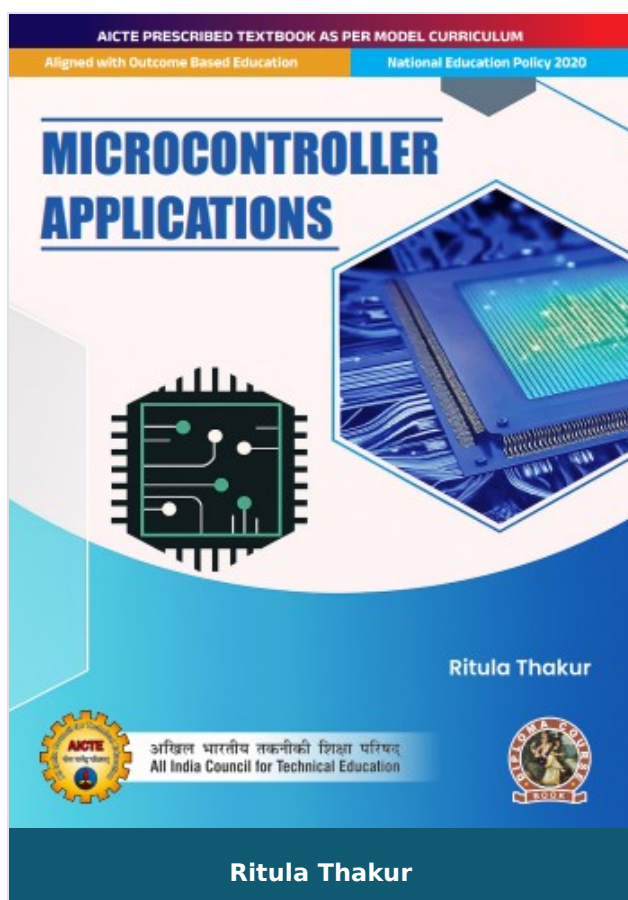
Author

S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.



Microcontroller Applications

Author :	Ritula Thakur
ISBN 13 :	978-93-55385-04-8
ISBN 10 :	9355385048
E-ISBN 13 :	978-93-55385-04-8
Edition :	First
Pages :	152
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 280.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

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

Product Description

Microcontroller Applications

The Microcontroller Applications has been designed to serve as a textbook for diploma students enrolled in Electrical, Electronics, and Instrumentation & Control branches. It will also serve well as reference to engineers and hobbyists working with the 8051. The detailed coverage of this book includes an introduction microcontroller, history of development of microcontrollers. It mainly covers 8051, along with its architecture and pin diagram. Assembly language programming of 8051 has been covered in detail gaining insight into how instructions are classified. A special chapter has been dedicated to Embedded C programming for the 8051 microcontroller, delving into essential aspects crucial for programming for embedded system. The book also explores various software development tools required for developing projects based on Assembly language and Embedded C programming of 8051.

Salient Features

- Introduction to 8051 microcontroller, its architecture, pin Diagram and SFRs.
- Classification of instructions for 8051 and detailed programs with explanation.
- Advanced concepts such as Timer/Counters, Serial Communication, Interrupts.
- Step-by-step guide to create Hex file using Keil Compiler.
- Detailed steps guidance for burning Hex file into microcontroller using Flashmagic.
- Unit-wise summary to revise important points highlighting key points of each unit.
- QR codes in each chapter to give student more insight into the subject.

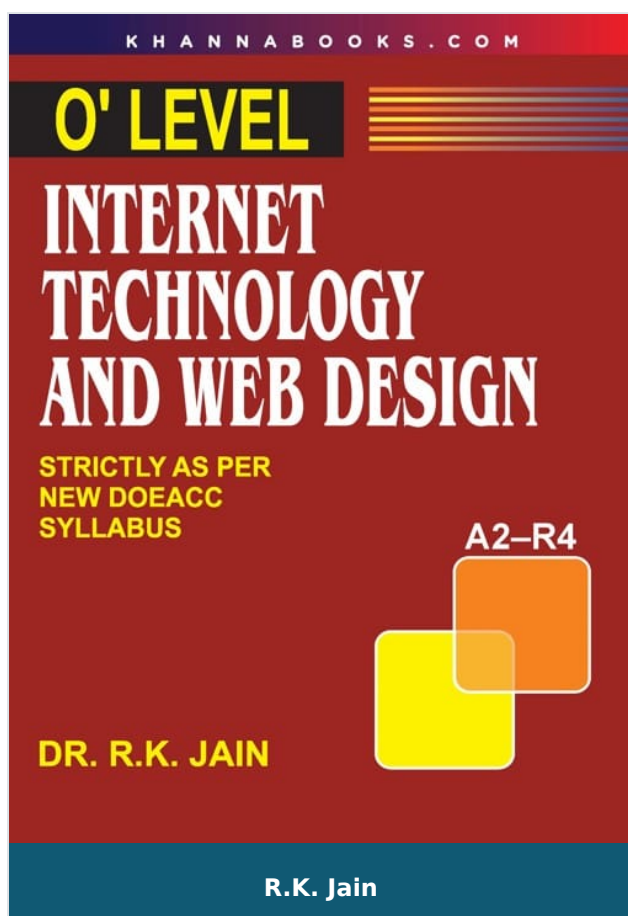
Table Of Contents

- Foreword
- Dedication
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Figures
- Introduction to microcontrollers
- Architecture of 8051 Microcontroller
- Instruction set and Programs
- Embedded C Programming for 8051
- Internal peripherals and Related programs
- References
- CO and PO Attainment Table
- Index

Author

Ritula Thakur

Dr. Ritula Thakur Associate Professor, National Institute of Technical Teachers Training & Research



Internet Technology and Web Design

Author :	R.K. Jain
ISBN 13 :	978-93-80016-62-7
ISBN 10 :	938001662X
E-ISBN 13 :	978-93-80016-62-7
Edition :	First
Pages :	370
Type of book :	Physical
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	NIELIT / DOEACC Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Written strictly according to the syllabus for M2-R4 paper of 'O' Level as prescribed by DOEACC examination, it covers various topics of basic internet technology like word internet, E mail, world wide web and programming languages like HTML, ASP, VB script and java. Each topics is covered in a separate chapter and has questions as described by DOEACC guidelines. Students reading this book and solving all the questions given with the chapters and the sample papers at the end of it are sure of getting through the exams. Special features of the book are review question at the end of each chapter, Sample papers at the end of the book, Glossary and index is provided too, wherever necessary topics are explained with screen shots.

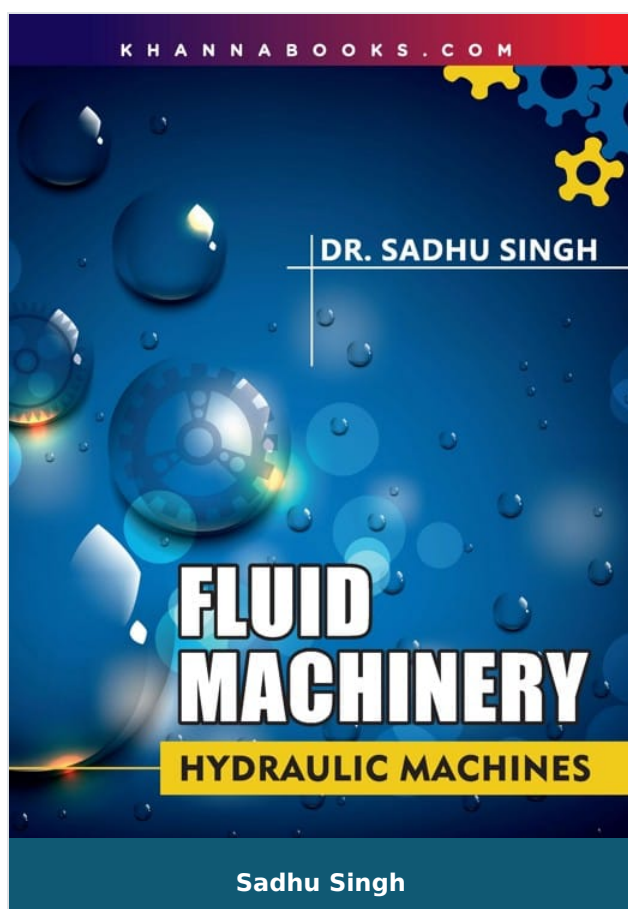
Table Of Contents

- Introduction to Internet
- TCP/IP-Internet Technology and Protocol
- Internet Connectivity
- Internet Network
- Services on Internet
- Electronic Mail
- Current Trends on Internet
- Web Publishing and Browsing
- HTML Programming Basics
- Interactivity Tools
- Internet Security Management Concepts
- Glossary
- Index
- Sample Papers

Author

R.K. Jain

Dr. R.K. Jain studied at IIT Powai and submitted his thesis for Ph.D at IIT Delhi. He has held various important posts in the past. At present he is advisor to various universities on setting up of a computer department and setting up of the syllabus for the same. With his knowledge of the various computer topics, he is an ideal choice for writing these kinds of books.



Fluid Machinery (Hydraulic Machines)

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-28-5
ISBN 10 :	9382609288
E-ISBN 13 :	978-93-82609-28-5
Edition :	1
Pages :	480
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 475.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This is a text book for B.E./ B. Tech. students of all Indian Universities and Institutions. The book contains fifteen chapters. The book contains a large number of solved and unsolved problems. The special features of the book are: summery, Review Question, Multi-choice Questions and end of chapter numerical problems.

Table Of Contents

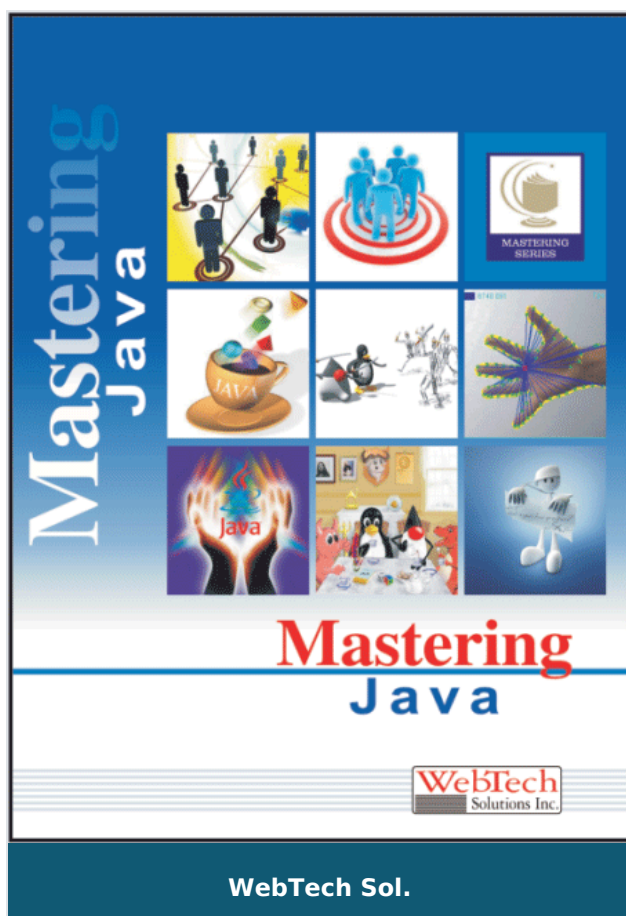
- Basic Concepts of Fluid Machinery
- Whirling of Fluids
- Hydro Power Generation Fundamentals
- Unit and Specific Quantities
- Pelton Turbine
- Francis Turbine
- Kaplan Turbine
- Draft Tube and Cavitation
- Governing, Selection and Performance of Hydraulic Turbines
- Reciprocating Pumps
- Centrifugal Pump
- Fluid Devices and Systems
- Fluid Laboratory Practice
- Conventional Questions From IES
- Multi-Choice Questions From IES
- Subject Index

Author

Sadhu Singh

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

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



Mastering Java

Author : WebTech Sol.

ISBN 13 : 978-93-80016-43-6

ISBN 10 : 9380016433

E-ISBN 13 : 978-93-80016-43-6

Edition : First

Pages : 354

Type of book : Physical

Year : 2010

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [Book Store, Mastering Series,](#)
[ADVANCE COMPUTER BOOKS](#)

Condition Type : New

Country Origin : India

Product Description

Java with its allied software like JavaScript, Java Servlet and others are such vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

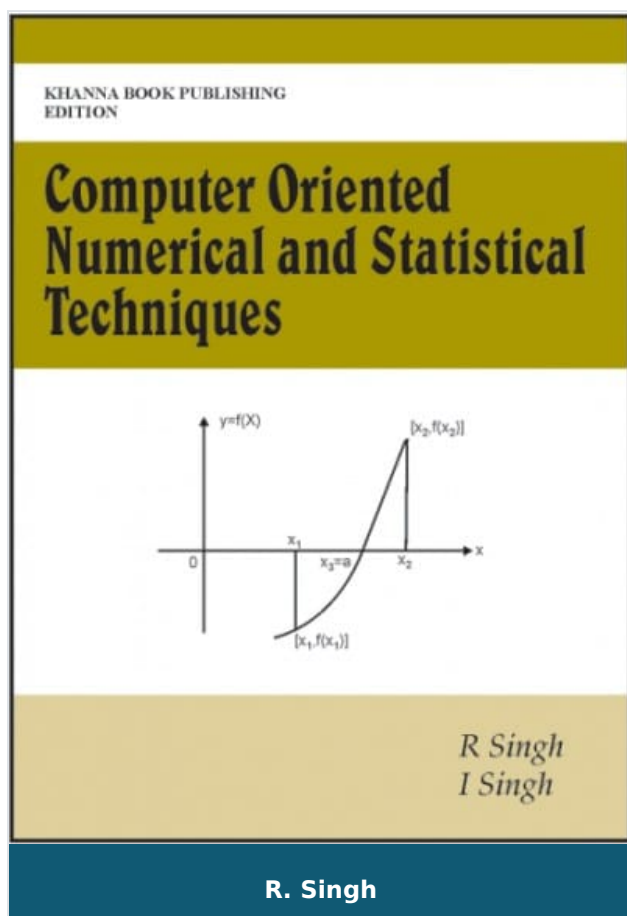
Table Of Contents

- Introduction to JAVA
- Java Programming
- Java Foundation Classes (JFC) and Swing
- Working with Java Script
- More on Java Script
- Java Beans
- Java Server Pages
- Java Directives and Standard Actions
- Java Servlets
- JDBC (Java Database Connectivity)
- Questions

Author

WebTech Sol.

WebTech Sol. WebTech Solutions Inc. is one of the pioneers of the technology industry. Webtech Solution Inc. is a leading IT development company bringing the latest technologies in a short span of time. Its professional research team aims to deliver the latest information on the best ways to analyze, develop, test, debug and tune best development skills including technical coding and theoretical concepts of IT. Its main aim is committed to excellence: excellence in its range and quality of publishing; excellence in dedication to its authors and excellence in the service it provides to the readers.



Computer Oriented Numerical & Statistical Techniques

Author :	R. Singh
ISBN 13 :	978-93-80016-78-8
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E-ISBN 13 :	978-93-80016-78-8
Edition :	First
Pages :	870
Type of book :	Physical
Year :	2010
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	APPLIED SCIENCES & HUMANITIES, Book Store, APPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Product Description

Written with the beginner in mind, this provides an exceptionally clear and precise detail of modern numerical and statistical techniques. Its approach is explanatory and language is lucid and communicable. Each and every technique described with the help of algorithm, Its flowchart and program using C and C++ and large number of solved and unsolved problems are given to have clear ideas. several examples of the application to engineering, medicine agriculture etc.

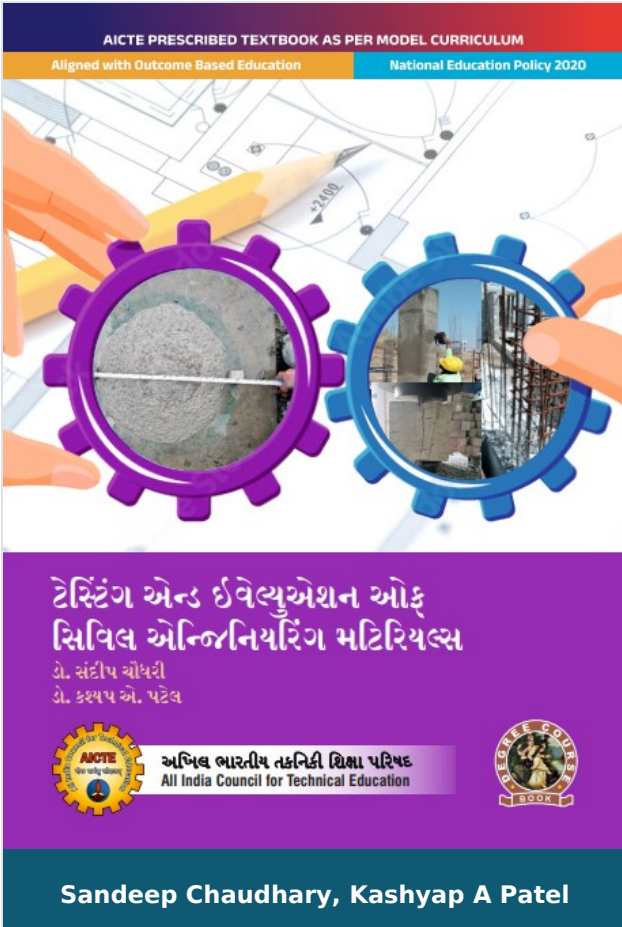
Table Of Contents

- Computer Basics for Numerical Problems
- Numerical Analysis
- Errors and their Analysis
- Solution of Transcendental and Polynomial Equations
- Interpolation
- Solution of Linear Equations
- Numerical Differentiation
- Numerical Integration
- Solution of Ordinary Differential Equations
- Curve Fitting
- Introduction to Statistics
- Measures of Central Tendency
- Measures of Dispersion
- Moments, Skewness and Kurtosis
- Correlation
- Regression Analysis

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. "



Testing & Evaluation of Civil Engineering Materials

Author :	Sandeep Chaudhary, Kashyap A Patel
ISBN 13 :	978-93-55384-99-7
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E-ISBN 13 :	978-93-55384-99-7
Edition :	First
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Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	AICTE Prescribed Textbooks, Gujarati 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.

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

Table Of Contents

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

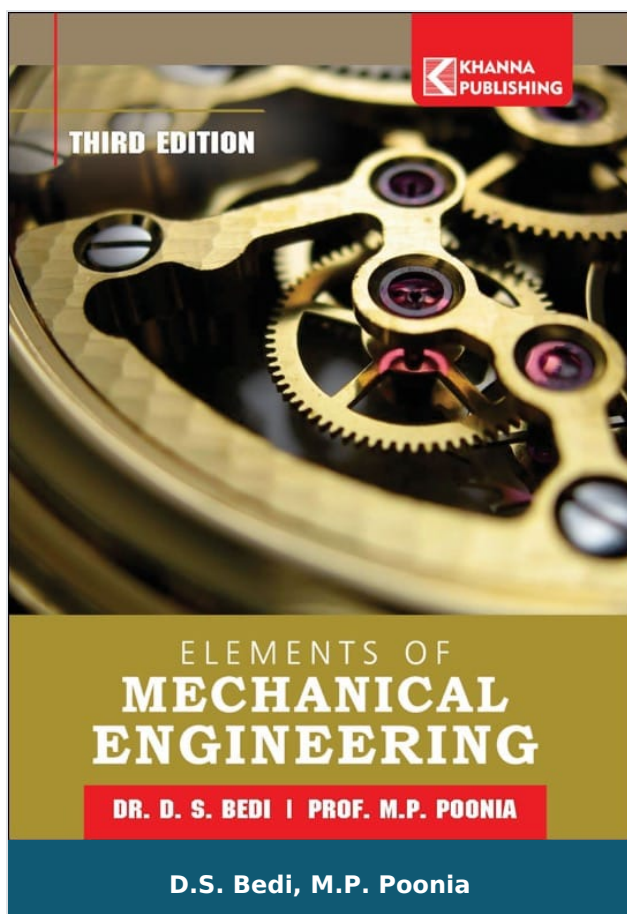
Author

Sandeep Chaudhary

Dr. Sandeep Chaudhary Professor, Department of Civil Engineering Indian Institute of Technology Indore Dr.

Kashyap A Patel

Dr. Kashyap A Patel Assistant Professor, Department of Civil Engineering Sardar
Vallabhbhai National Institute of Technology, Surat



Elements of Mechanical Engineering

Author : D.S. Bedi, M.P. Poonia

ISBN 13 : 978-93-86173-06-5

ISBN 10 : 9386173069

E-ISBN 13 : 978-93-86173-06-5

Edition : Third

Pages : 748

Type of book : Physical

Year : 2019

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 450.00

Categories : [Mechanical Engineering,](#)
[UNIVERSITY RECOMMENDED,](#)
[Mechanical Engineering, Book](#)
[Store](#)

Condition Type : New

Country Origin : India

Product Description

The subject 'Elements of Mechanical Engineering' embraces 3 different fields of Mechanical Engineering, namely Thermodynamics, Strength of Materials and Theory of Machines.

The book is written in simple and easy to understand language. The authors have ingeniously brought in situations encountered by common man in his day-to-day life, so as to generate interest in the reader for the subject which otherwise leaves him high and dry.

In addition to this, every topic is supplemented with large no. of solved examples (more than 300 examples) which deals with every possible situation. At the end of each chapter, review questions have been added so that the students are made conversant with the type of compulsory questions they have to face in university exam. These are also followed by large no. of model problems.

Table Of Contents

- Basic Concepts of Thermodynamics
- Properties of Pure Substances
- First Law of Thermodynamic-Closed Systems
- First Law of Thermodynamics Applied to Flow Processes
- Second Law of Thermodynamics
- Entropy
- Gas Power Cycles
- Internal Combustion Engines
- Mechanisms and Machines
- Lifting Machines
- Concept of Mechanical Behavior of Engineering Materials
- Relation Between Elastic Constants
- Engineering Materials
- Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia
- Index

Author

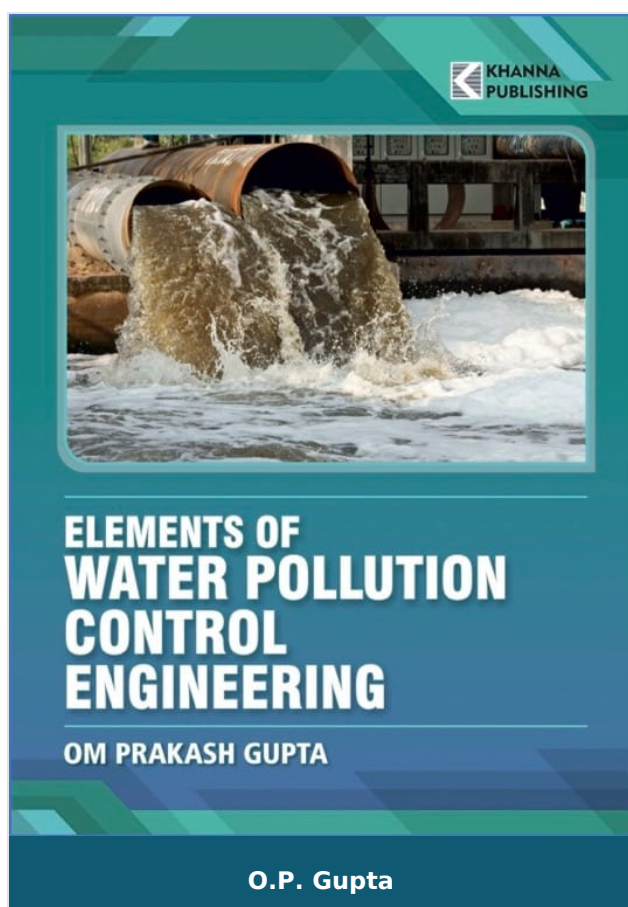
D.S. Bedi

Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering, Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-

cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.



Elements of Water Pollution Control Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-22-5
ISBN 10 :	9386173220
E-ISBN 13 :	978-93-86173-22-5
Edition :	First
Pages :	924
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Civil Engineering, Environmental Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

The book contains twelve chapters followed by appendices (meant for specific target reader groups) pertaining to complete domain of water pollution control engineering. Beside, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. the book will be useful for degree & diploma curriculum or various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineers (AMICHE), Institute of Chemist etc. It will also be equally useful for M.Sc. & B.Sc. students.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & easy to understand language.

Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short question & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students.

Up to date statistics and glossary of terms related to the subject have been included.

Table Of Contents

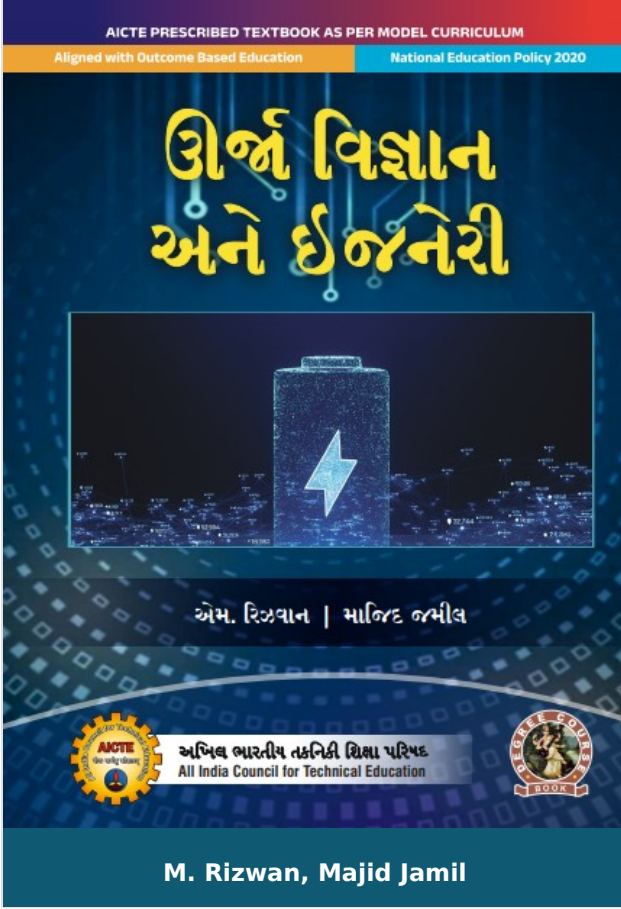
- Introduction to Water Pollution
- Characteristics and Properties of Water
- Purification of Water/Water Treatment
- Sources, Effects and Control of Water Pollution
- Waste Water/Sewage Treatment
- Industrial Waste Water and Its Treatment
- Water Quality and Standards
- Water Related Disease
- Thermal Pollution of Water
- Water Management
- Water Pollution Control Acts & Rules
- APPENDIX – A
- Appendix- B

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 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.



Energy Science and Engineering

Author : M. Rizwan, Majid Jamil

ISBN 13 : 978-93-55388-38-4

ISBN 10 : 9355388381

E-ISBN 13 : 978-93-55388-38-4

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Publisher : Khanna Publishing House

M.R.P : Rs 298.00

Categories : [AICTE Prescribed Textbooks,](#)
[Gujarati Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Energy Science and Engineering

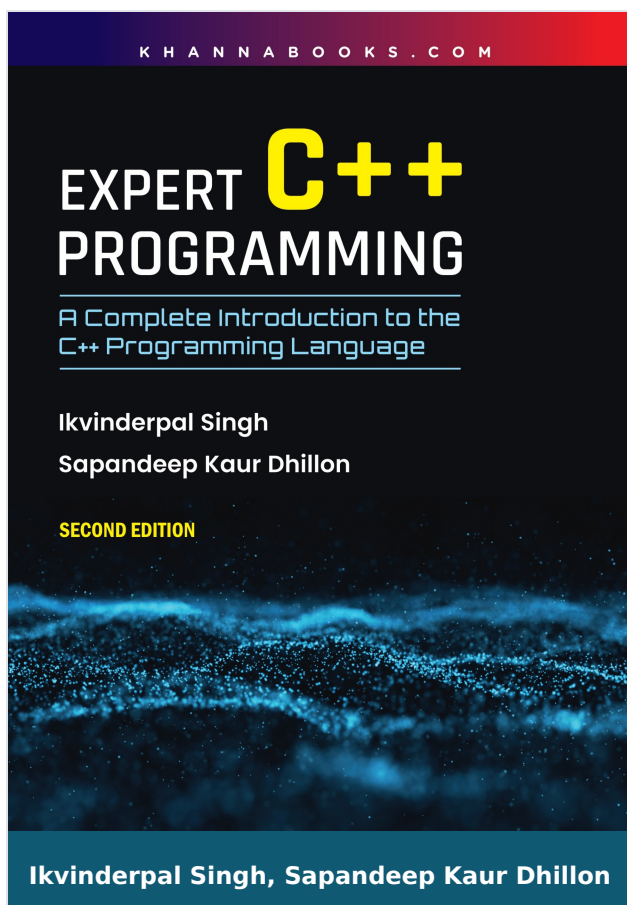
Author

M. Rizwan

Dr. M. Rizwan Professor Department of Electrical Engineering, Delhi Technological University, Delhi, INDIA Dr.

Majid Jamil

Dr. Majid Jamil Professor Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, INDIA



Expert C++ Programming

Author : Ikvinderpal Singh, Sapandeep Kaur Dhillon

ISBN 13 : 978-93-74544-55-6

ISBN 10 : 9374544555

E-ISBN 13 : 978-93-74544-55-6

Edition : Second

Pages : 984

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 1,495.00

Categories : [Computer Science Engineering,](#)
[Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of c++ programming. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises. 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.

Salient Features

- Detailed description to object-oriented programming and its features. It also includes evolution of C++ in detail.
- Complete introduction to C++ programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail.
- Various types of operators and expressions are described with the help of examples and simple programs.
- Demonstrates the description of console I/O statements in a lucid manner.
- Each and every control statement is described with the help of flowcharts and simple programs.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates every program in a good programming style.
- Around 500 solved C++ programs are included.
- Around 300 objective type questions are included.
- Gives detailed description of arrays, strings and functions in lucid manner.

- Covers all concepts of array, pointers like array and pointer, function and pointer, dynamic memory allocation in detail. It also includes concept of structure and union.
- Covers all concepts of classes and constructor in a lucid manner, it also covers operator overloading; each and every operator is overloaded using programming techniques.
- All types of inheritance and polymorphism are given in detail with new concepts like virtual inheritance, aggregation, composition, virtual function, object slicing etc.
- Covers different special functions like inline, friend, static, const, volatile etc. with the help of examples and simple programs.
- Presents various streams and files operations like open (), close (), seek (), reading and writing a file, working with streams etc.

Table Of Contents

- Getting Started With C++
- C++ Programming Basics
- Operators and Expressions
- Console Input and Output in C++
- Control Statements
- Arrays
- Strings
- Functions
- Pointers
- Structures and Unions
- Classes
- More About Classes
- Operator Overloading
- Inheritance
- Polymorphism and Virtual Function
- Exploring Special Functions
- C++ Streams and Files
- Templates
- Exception Handling
- Standard Template Library and Namespaces

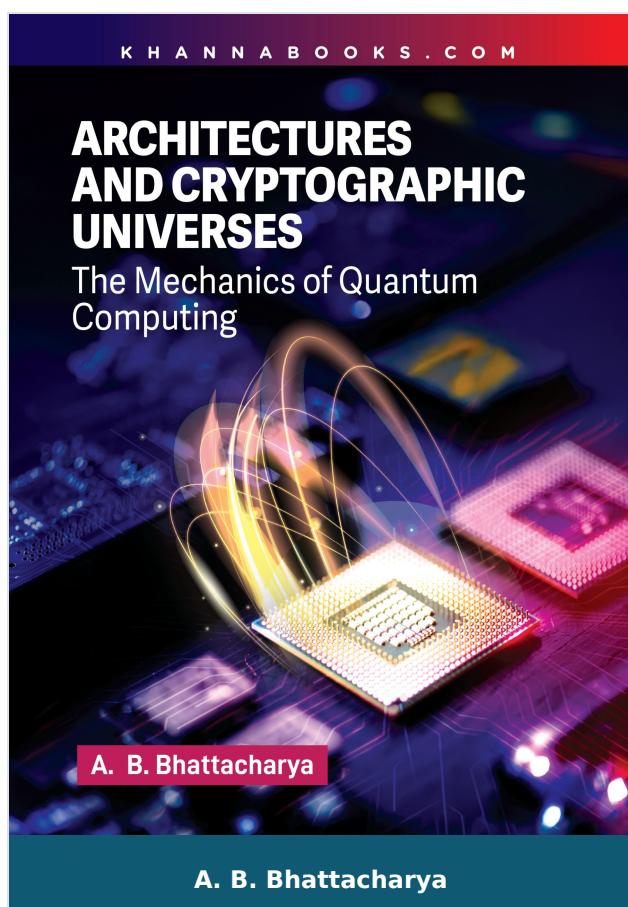
Author

Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

Sapandeep Kaur Dhillon

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.



Architectures And Cryptographic Universes (The Mechanics of Quantum Computing)

Author : A. B. Bhattacharya

ISBN 13 : 978-93-55389-69-5

ISBN 10 : 9355389698

E-ISBN 13 : 978-93-55389-69-5

Edition : First

Pages : 348

Type of book : Physical

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Publisher : Khanna Publishing House

M.R.P : Rs 548.00

Categories : [New Arrivals, Emerging Technologies, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Architectures And Cryptographic Universes (The Mechanics of Quantum Computing)

From the basic designs of quantum computers to the latest advances in quantum security. "Architectures and Cryptographic Universes: The Mechanics of Quantum Computing" takes you on a complete journey through the world of quantum technology.

Whether you are a student, researcher, or professional in computing or physics, this book will help you understand and make the most of the exciting quantum revolution.

Salient Features:

Learn Ahead to the Future – Quantum Computing Survey

- **Learn the Hardware:** Discover how quantum computers actually work – from superconducting qubits and trapped ions to quantum dots and light-based systems – and understand the big challenges of stability and scalability.
- **Learn the Security revolution:** Step into Quantum Cryptography – explore real protocols like BB84, understand the No-Cloning Theorem, and see how quantum tech will change data protection forever.
- **Learn the Science in Action:** Experience how Quantum Simulation helps, design new materials and chemicals, and explore the future of Quantum Machine Learning, adiabatic, and topological computing.
- **Learn by Doing:** Get practical with tools like Google cirq, Microsoft QDK, and open-source simulators. Build your own circuits, run guided exercises, and even test on real quantum devices.
- **Learn the Challenges:** Understand the ongoing research in quantum error correction, cryogenic cooling, and scalable architectures – key steps toward powerful

quantum machines.

- **Learn the future:** Imagine what's next – Quantum Networks, the Quantum Internet, and hybrid systems where classical and quantum computing work hand in hand.

Each chapter Includes:

- Conceptual Breakdown
- Short Questions and MCQs
- Numerical Problems with Solutions
- Project Ideas with Guidance

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Author

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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 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 honored 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.