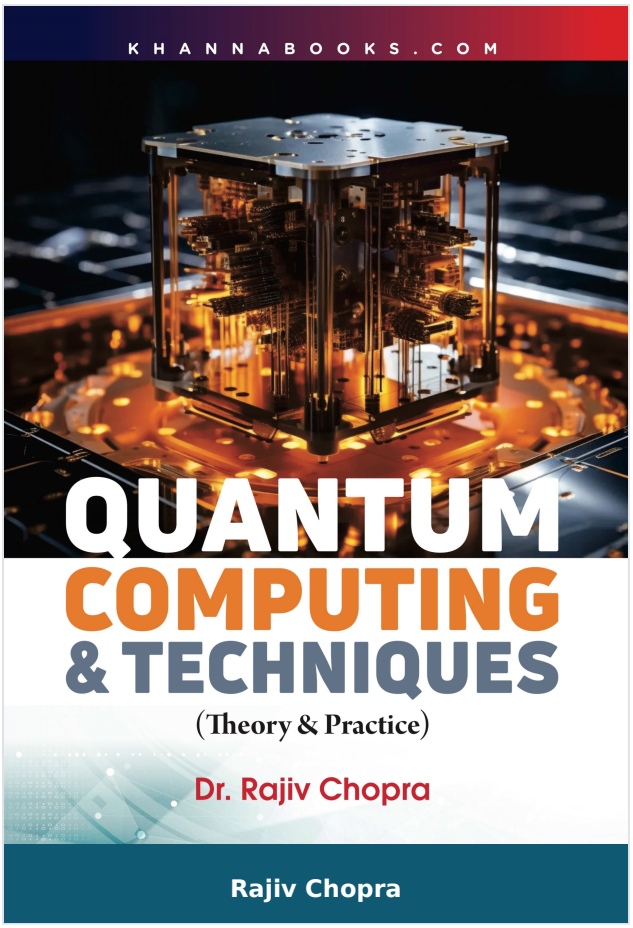

Quantum Computing & Techniques (Theory & Practice)

Author :	Rajiv Chopra
ISBN 13 :	978-93-55384-23-2
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

QUANTUM COMPUTING & TECHNIQUES

(THEORY & PRACTICE)

1. A Valuable Resource: This well-regarded book is full of important information and is praised in the field of Quantum Computing.

2. Fun Learning: The book makes complex topics enjoyable, helping readers learn in a joyful way.

3. Bridging the Knowledge Gap: It helps readers go from not knowing much about Quantum Computing to understanding it well, breaking down difficult ideas.

4. Clear Understanding: It removes confusion and shines light on the topic, giving reader’s confidence in what they learn.

5. Simple and Clear: Despite its complex topic, the book is easy to understand and straightforward.

6. Course Friendly: The content is designed to match the study programs of many universities in India and beyond.

7. Thorough and Detailed: The book explains topics thoroughly, making sure everything is easy to grasp.

8. Curriculum- Aligned: It is aimed at B.E. /B. Tech. students in fields like Computer Science, IT, Electronic engineering, and more.

9. Research Gateway: This book is useful for students, teachers, and researchers opening doors for new ideas in quantum computing.

10. Assessment Tools: Each chapter includes multiple- choice questions with answers, as well as short questions and exercises that match current exam patterns.

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11. Illustrative Approach: The book has many examples to help readers apply what they learn in practical labs.

12. Hands-On Learning: All lab exercises are tested with the IBM Qiskit Toolkit, ensuring they work well in Practice.

13. Fueling Intellectual Curiosity: This book sparks interest in those wanting to become quantum engineers, deepening their understanding of Quantum Technologies.

Dive into the exciting world of quantum computing, where complex ideas become clear, and curiosity leads to deep understanding!

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- Quantum Circuits Design.
- Quantum Algorithms.
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- Quantum Error Correction.
- Quantum Cryptography.
- Appendix:
- Experiments in Quantum Computing Lab. (using Python).
- Index

Author

Rajiv Chopra

Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali VidyaPith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit,for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.

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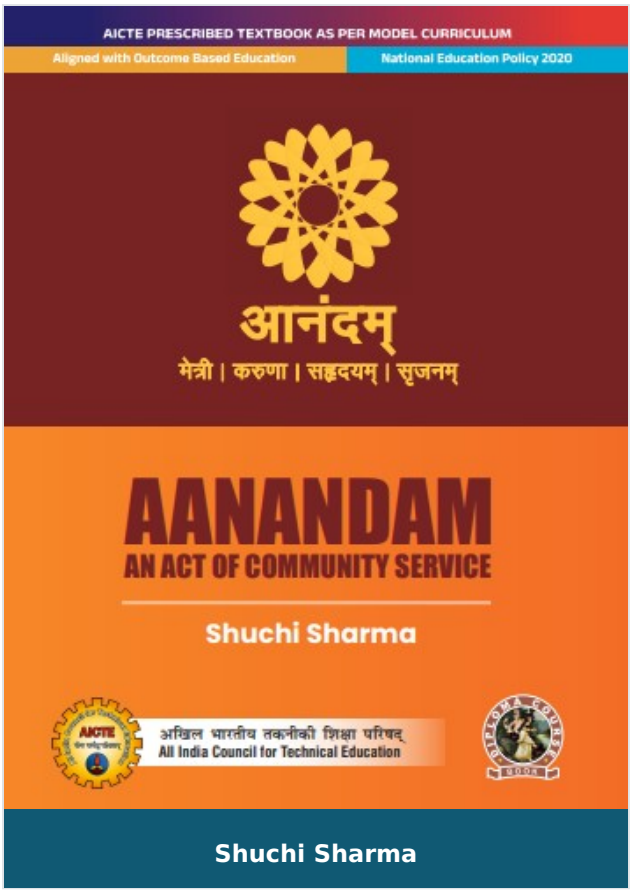

Aanandam An Act of Community Service

Author :	Shuchi Sharma
ISBN 13 :	978-93-55382-48-1
ISBN 10 :	9355382480
E-ISBN 13 :	978-93-55382-48-1
Edition :	First
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Type of book :	Physical
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 198.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Aanandam An Act of Community Service

Salient Feature:

- It is a guide book for the students and the mentors of the course.
- The book discusses about how the education is incomplete without evolving the goodness hidden inside an individual.
- It guides the students about how to interact with the community and understand the problems of the people.
- It explains about how to select a community problem and make it a subject for the group project.
- How to write the project report, has been explained well with examples.
- The importance of volunteerism, environmental sustainability and community service has been discussed at length.
- The students are most important part of society. It is expected from the education system that it produces socially responsible and empathetic young leaders. To fulfill this objective a novel idea of Aanandam diary has been introduced. It gives an opportunity to peep into the inner world and let love and kindness flow.
- This book will certainly help in understanding the course and implementing it in true spirit to bring forth empathetic, creative and happy young leaders.

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- Acknowledgement
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- Why Aanandam?
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- Volunteer Benevolence
- Volunteering Immersions for Students at MAHE Manipal
- Aanandam and Environmental Sustainability
- Aanandam Diary
- Aanandam and Community Service
- Aanandam Day - How to make learning a celebration
- How to do a group project work
- Aanandam: A Roadmap for the future
- Conclusion
- Appendix
- Implementation of Aanandam in Higher & Technical Education
- in Rajasthan
- References

Author

Shuchi Sharma

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Dr. Shuchi Sharma, IAS (retd) Former Secretary Higher, Technical & Sanskrit Education, Government of Rajasthan

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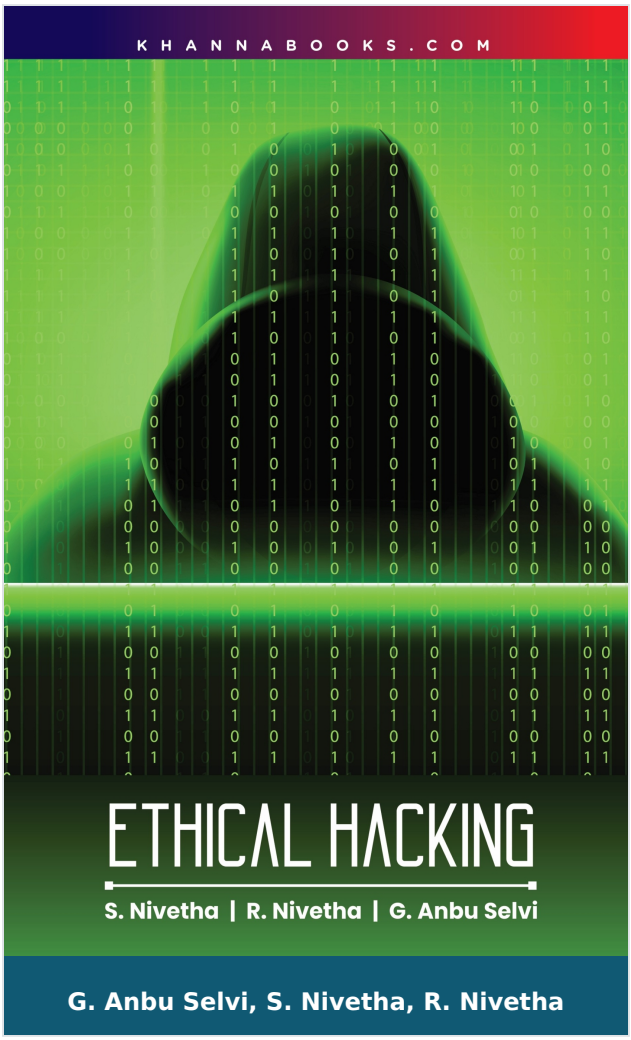

Ethical Hacking

Author :	G. Anbu Selvi, S. Nivetha, R. Nivetha
ISBN 13 :	978-93-55387-61-5
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Product Description

In the rapidly evolving digital landscape, where cyber threats are increasing in complexity and frequency, Ethical Hacking stands as an indispensable guide for mastering proactive cybersecurity defense. This book is meticulously designed to introduce readers to the fundamental concepts and practical methodologies of Ethical Hacking and Penetration Testing. It is structured to align with a dedicated cybersecurity curriculum, making it an ideal resource for students in Computer Science and related fields, as well as cybersecurity enthusiasts and IT professionals aiming to enhance their skills.

The core theme of the text is to transform the reader into an authorized "White Hat" hacker, equipping them with the technical expertise and ethical mindset required to fortify digital infrastructures. It achieves this by delving into crucial, real-world topics such as the phases of ethical hacking, detailed penetration testing methodologies, information gathering, enumeration, vulnerability scanning, and network sniffing. Beyond theoretical knowledge, the book emphasizes hands-on experience, featuring practical exercises and case studies that allow readers to apply knowledge in live cybersecurity scenarios.

By exploring various tools and techniques, readers learn to think like security analysts, adopt a proactive approach to cyber threats, and serve as the critical first line of defense in protecting systems and data integrity. This comprehensive guide provides the strong foundation necessary for anyone aspiring to a career as an ethical hacker, penetration tester, or cybersecurity analyst.

Salient Features:

• Structured Pen Testing: Covers the end-to-end methodology, including planning, reconnaissance, discovery, active intrusion, and final analysis for comprehensive security audits.

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• Essential Tool Mastery: Provides practical guidance on using critical industry tools such as Nmap, Nessus Vulnerability Scanner, Wireshark, and Acunetix for hands-on experience.

• Assessment and Mitigation: Details the process of vulnerability assessment and risk assessment, including scoping, scanning, reporting (using CVSS scores), and prioritizing crucial fixes.

• Intelligence and Reconnaissance: Explores both active and passive information gathering (Footprinting) to collect data without direct interaction, forming the blueprint of a target network infrastructure.

• Network Defense Deep Dive: Dedicated coverage of network attacks, including ARP Spoofing, Denial of Service (DoS), DNS/DHCP Spoofing, and how to defend against these crucial vectors.

• Ethical Hacking Mindset: Clearly distinguishes White Hat from Black Hat activities, emphasizing the legal and ethical standards required for authorized penetration testing.

• Practical Case Studies: Includes case studies and practical exercises throughout the units to reinforce learning and ensure readers can apply their technical knowledge in real-life scenarios.

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- Information Gathering
- Enumeration and Port Scanning
- Vulnerability Scanning
- Network Sniffing
- Summary
- Video Resources Link (You tube Videos)

Author

G. Anbu Selvi

G. Anbu Selvi Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology R.Nivedha Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

S. Nivetha

S. Nivetha

R. Nivetha

R. Nivetha

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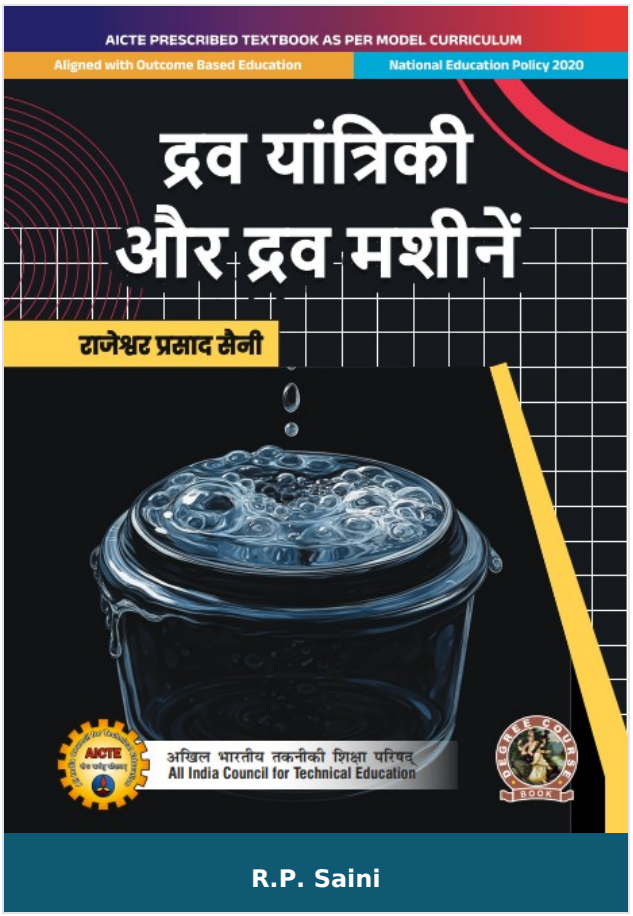

Fluid Mechanics & Fluid Machines

Author :	R.P. Saini
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Author

R.P. Saini

Dr. R.P. Saini Department of Hydro and Renewable Energy Indian Institute of Technology Roorkee

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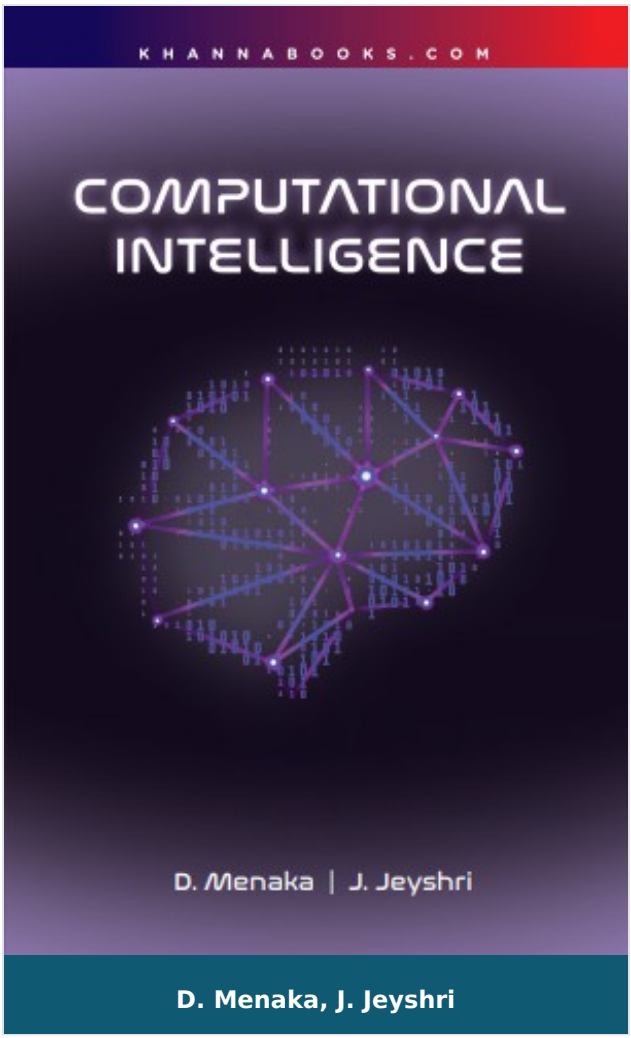

D. Menaka, J. Jeyshri

Computational Intelligence

Author :	D. Menaka, J. Jeyshri
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ISBN 10 :	9355382766
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Product Description

Computational Intelligence

Computational Intelligence serves as a comprehensive and insightful guide into a field that stands at the forefront of the rapidly evolving digital era, powering advancements from data analytics to autonomous systems. This book is dedicated to providing a structured yet accessible overview of Computational Intelligence (CI), a powerful paradigm that solves complex real-world problems by leveraging techniques inspired by natural intelligence. The core theme is the integration of diverse concepts, including artificial intelligence, machine learning, neural networks, evolutionary computing, and fuzzy logic.

The text offers a careful balance between theoretical depth and practical relevance, ensuring that complex methodologies are made clear and engaging for a wide audience, which includes students, educators, researchers, and professionals. Chapters cover fundamental principles, key algorithms, and recent advancements, empowering readers to not only understand but also implement intelligent computational models. To foster practical knowledge, the book integrates real-world case studies and examples that demonstrate the application of CI techniques across crucial domains such as healthcare, finance, robotics, and optimization. By focusing on algorithmic design and real-time applications, this academically rigorous work inspires innovation and provides the tools necessary to contribute effectively to the future of intelligent computing.

Salient Features:

- **Foundational AI Concepts**: Covers the principles of Artificial Intelligence, including its foundations, different types of AI, and the architecture and operation of various intelligent agents.

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- **Neural Networks & Deep Learning**: Details the structure of Artificial Neural Networks (ANNs), Single/Multi-Layer Perceptrons, and modern Deep Learning algorithms, covering both supervised and unsupervised learning.
- **Fuzzy Logic & Hybrid Systems**: Explores Fuzzy Logic, Fuzzy Set Theory, and Fuzzy Reasoning, culminating in advanced hybrid models like Neuro-Fuzzy and Cooperative Fuzzy Neural Networks (CFNN).
- **Evolutionary Algorithms**: Provides an introduction to Genetic Algorithms, detailing concepts like search space, reproduction, and selection methods essential for optimization problems.
- **Swarm Intelligence Techniques**: Dedicated coverage of optimization algorithms inspired by collective behavior, including Particle Swarm Optimization (PSO) and Ant Colony Optimization (ACO) variants.
- **Practical Search Strategies**: Explains key Problem-Solving Agents and algorithms, differentiating between Uninformed and Informed search strategies used for efficient goal-directed problem-solving.
- **Real-World Case Studies**: Integrates practical applications and case studies across vital sectors like healthcare, finance, robotics, and logistics, demonstrating the implementation of CI techniques.
- **Ethical & Future Trends**: Discusses the ethical considerations and challenges of AI, alongside future trends like Explainable AI (XAI) and Quantum AI, preparing readers for responsible deployment.

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- Fuzzy Systems
- Genetic Algorithms
- Swarm Intelligence

Author

D. Menaka

D. Menaka, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

J. Jeyshri

J. Jeyshri Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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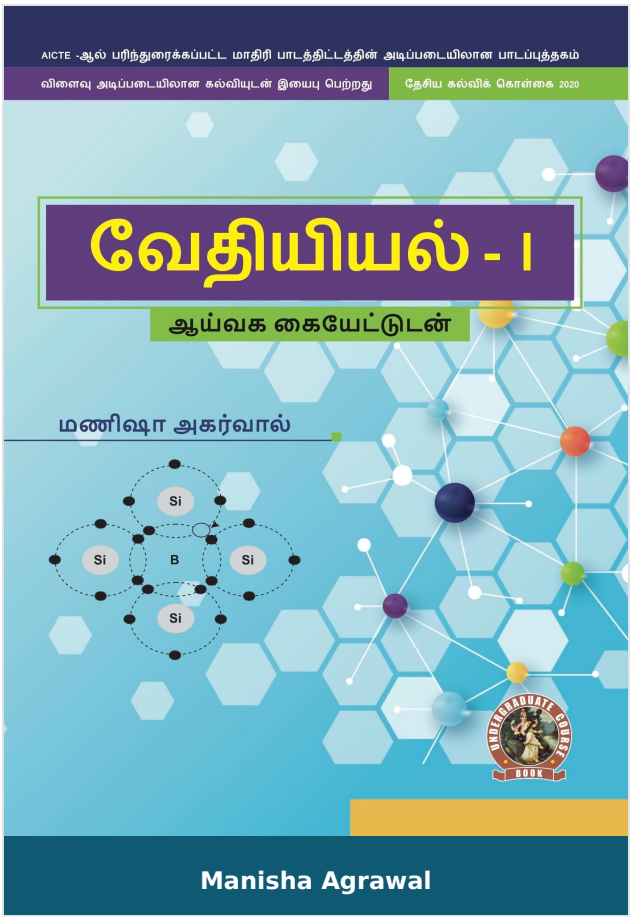

Chemistry I (with Lab Manual)

Author :	Manisha Agrawal
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ISBN 10 :	939150566X
E-ISBN 13 :	978-93-91505-66-0
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

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

2. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc.

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

4. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics.

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

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

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- Techniques and Applications
- Intermolecular
- Forces and Potential Energy Surfaces
- Use of Free
- Energy in Chemical Equilibria
- Periodic
- Properties
- Stereochemistry
- and Organic Reactions
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- Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

Author

Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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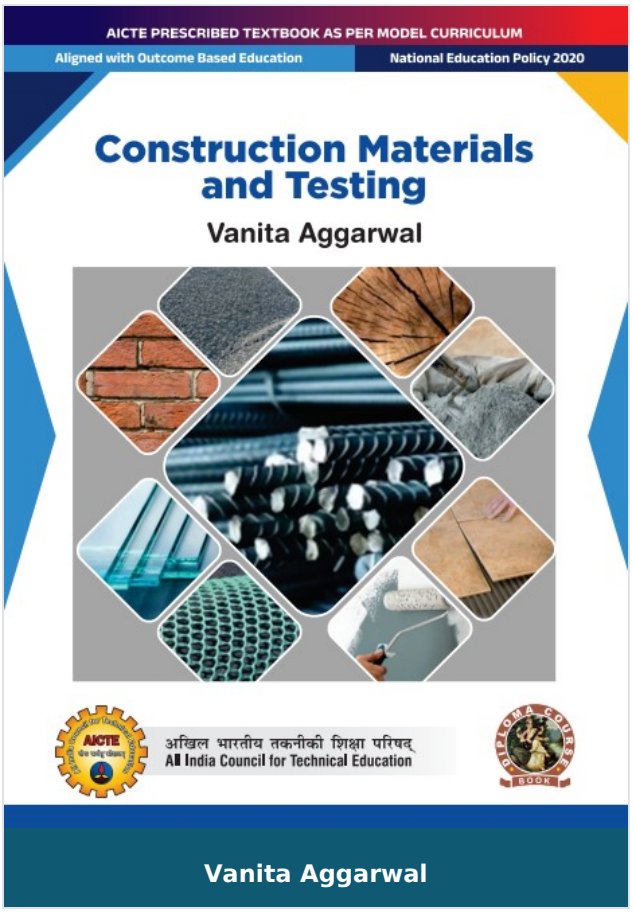

Construction Materials and Testing

Author :	Vanita Aggarwal
ISBN 13 :	978-93-55383-33-4
ISBN 10 :	9355383339
E-ISBN 13 :	978-93-55383-33-4
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Language :	English
Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

Construction Materials and Testing

This book familiarizes the students with different types of Construction Materials. It provides exposure of conventional as well as advanced materials to Civil Engineering students. The content includes details of a relative comparison, merits and demerits, and challenges of different types of materials used in construction and their application in real life projects.

The main aim of this book is to enable students to reach the most suitable material for use in different scenarios. The content of this book is aligned with the model curriculum of AICTE followed by concept of outcomes-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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- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
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- Overview of Construction Materials
- Natural Construction Materials
- Artificial Construction Materials
- Special Construction Materials
- Processed Construction Materials
- CO and PO Attainment Table
- References for Further Learning
- Index

Author

Vanita Aggarwal

Dr. Vanita Aggarwal Professor And Head Department of Civil Engineering Maharishi Markandeshwar (Deemed to be University) Mullana (Ambala), Haryana

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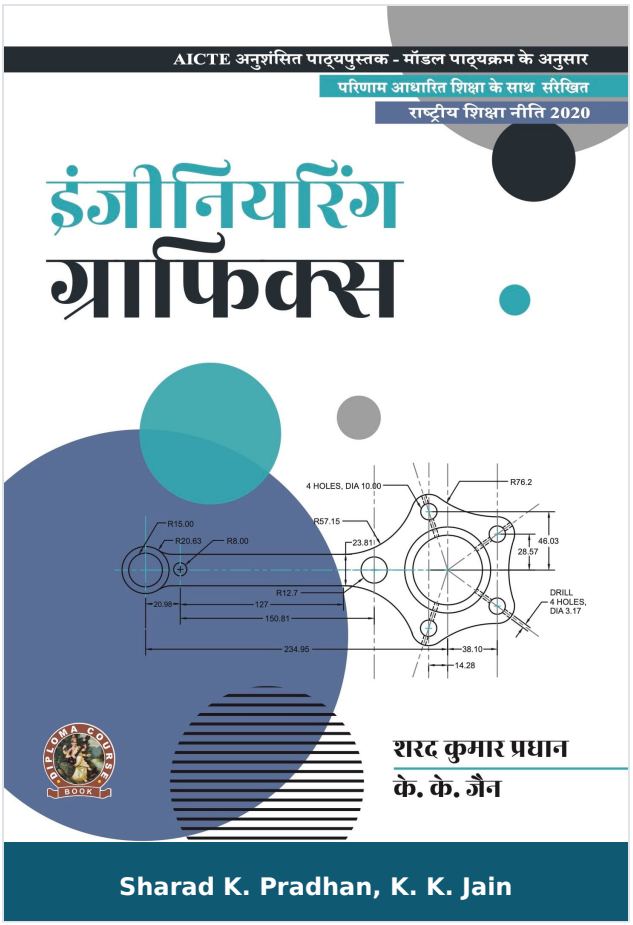

Engineering Graphics

Author :	Sharad K. Pradhan, K. K. Jain
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M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

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

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

Some salient features of the book:

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

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

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

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

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

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

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

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

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- Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, List of tables Guidelines for Teachers, Guidelines for Students
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- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting

Author

Sharad K. Pradhan

Sharad K. Pradhan

K. K. Jain

K. K. Jain

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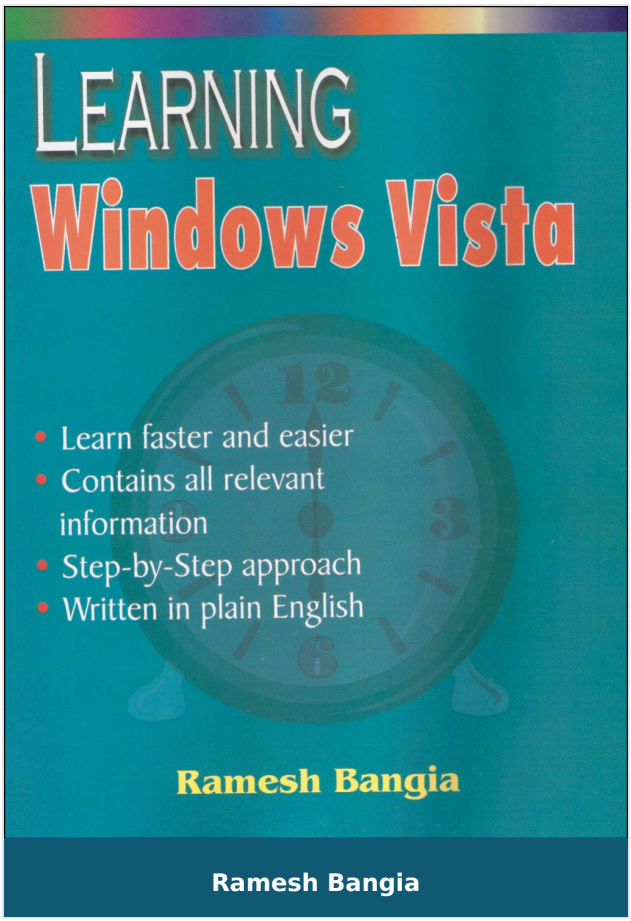

Learning Windows Vista

Author :	Ramesh Bangia
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Product Description

Learning of a Software is both easy and difficult. It depends upon what level you are planning to learn. If you are learning only for the working use, than it is very easy. But when you try to go deep into it, then you realist how difficult it is to master it.

Windows Vista is such a 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 ill just guide you how to use the stairs.

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- Introduction to Windows Vista
- Accessories of Windows Vista
- Control Panel of Windows Vista
- Configuring your system with Windows Vista
- Maintain and Protect our System with Windows Vista
- Additional Commands of Windows Vista
- Keyboard Shortcuts
- Questions

Author

Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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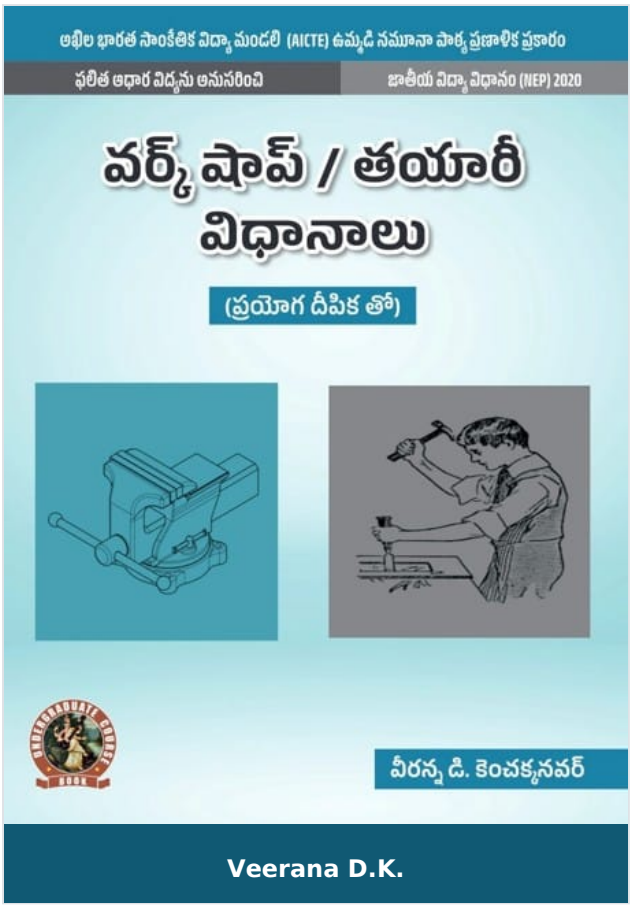

Workshop / Manufacturing Practices

Author :	Veerana D.K.
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Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

Salient Features:

1. Manufacturing Methods
2. CNC Machining, Additive manufacturing
3. Fitting operations & power tools
4. Electrical & Electronic
5. Carpentry
6. Plastic mounding, glass cutting
7. Metal casting
8. Welding (arc welding & gas welding), brazing

9. Laboratory experiments and models

10. Appendices

11. References

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- Course Outcomes
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- Manufacturing Methods.
- CNC Machining, Additive manufacturing, Fitting operations & power tools.
- Electrical & Electronic.
- Carpentry, Plastic molding, glass cutting.
- Metal casting, welding (arc welding & gas welding), brazing.
- Part- B: Workshop Practice Laboratory
- Appendices
- References

Author

Veerana D.K.

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