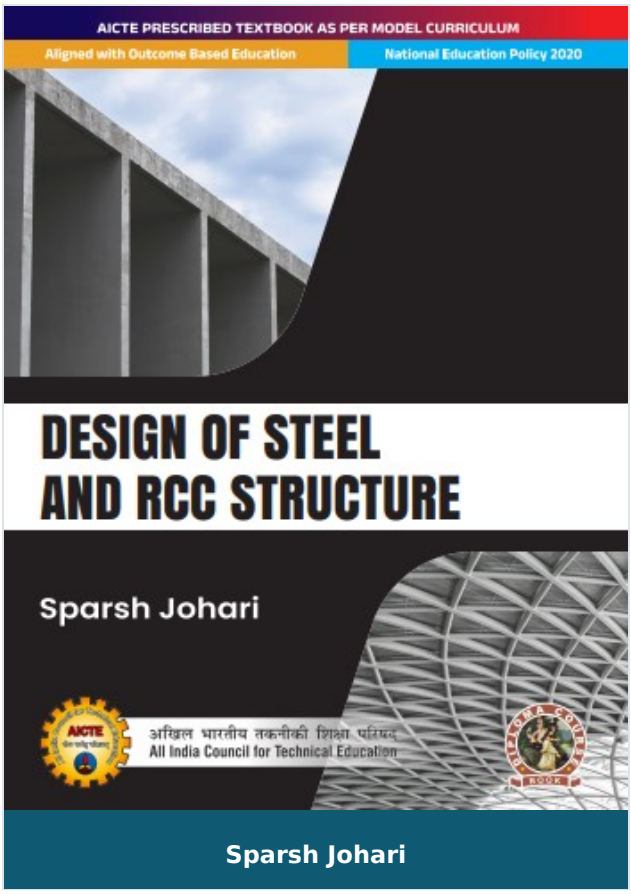

Design of Steel and RCC Structure

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Condition Type :	New
Country Origin :	India

Product Description

Design of Steel and RCC Structure

This book – Design of steel and RCC Structures – covers various topics relevant to construction work. It includes on introduction to steel and RCC structures, philosophies of designing beams and columns, use of the Limit state Method in designing the RCC members, shear and bond strength, and designing the development length. In addition, a detailed design of axially loaded RCC columns is also included in the book.

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.
- questions are given for practice of students after every chapter.
- Solved numerical problems are illustrated in the chapters.

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- Design of Steel Beams
- Design of Reinforced Concrete Beams by Limits State Method
- Shear, Bond, and Development Length in The Design of RCC Member
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Author

Sparsh Johari

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Engineering Graphics & Design

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Condition Type :	New
Country Origin :	India

Product Description

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

Salient Features:

1. Introduction of Engineering Drawing
2. Orthographic Projection
3. Projection of Solids
4. Section of Solids and Development of Surfaces
5. Isometric Projection
6. Overview of Computer Graphics
7. CAD Drawing
8. Solid Modelling
9. Team Design Project.

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- Isometric Projection
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- Customisation &CAD
- Annotation Layers and 3D Modelling
- Projects
- Reference
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Author

Pradeep Jain

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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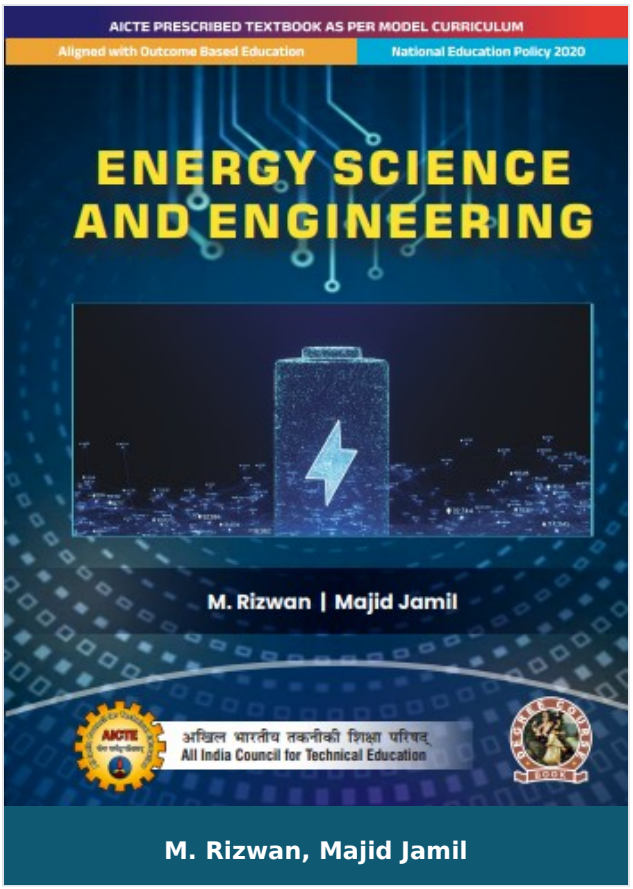

Energy Science and Engineering

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Product Description

Energy Science and Engineering

This book has been designed for second-year students of undergraduate students in the engineering program. It will prove to be a valuable source for practicing engineers and faculty members. The book is divided into seven units and provides all the necessary information on an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field with an emphasis on alternative energy sources, their technology and applications.

This book will provide an opportunity to explore society’s present energy needs and future energy demands, examine conventional energy sources and systems including fossil fuels and nuclear energy. More focus of this book is on renewable energy sources, sustainability, and the environment. Clean energy technologies and their importance in sustainable development, carbon footprint, energy and environment, trade and research policy, future energy use that can be influenced by the economics, linkage between economic and environmental outcomes are discussed by including the latest available statistical data. This book also covers topics on civil project development for creating energy infrastructure. Concepts of green building and green architecture, energy auditing and energy enterprises with some practical examples are presented in easy language to understand the fundamental concepts. It is important to note that in all the units, dynamic QR codes are provided to collect additional knowledge on the specific topic.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.

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- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Building Structure for Nuclear Power Plants
- Engineering for Energy Conservation (Green Building and Green Architecture)
- Engineering for Energy Conservation (Energy Auditing, Efficiency & Energy Conservation)
- Unit Summary
- Short and Long Answer Type Questions
- References and Suggested Readings

Author

M. Rizwan

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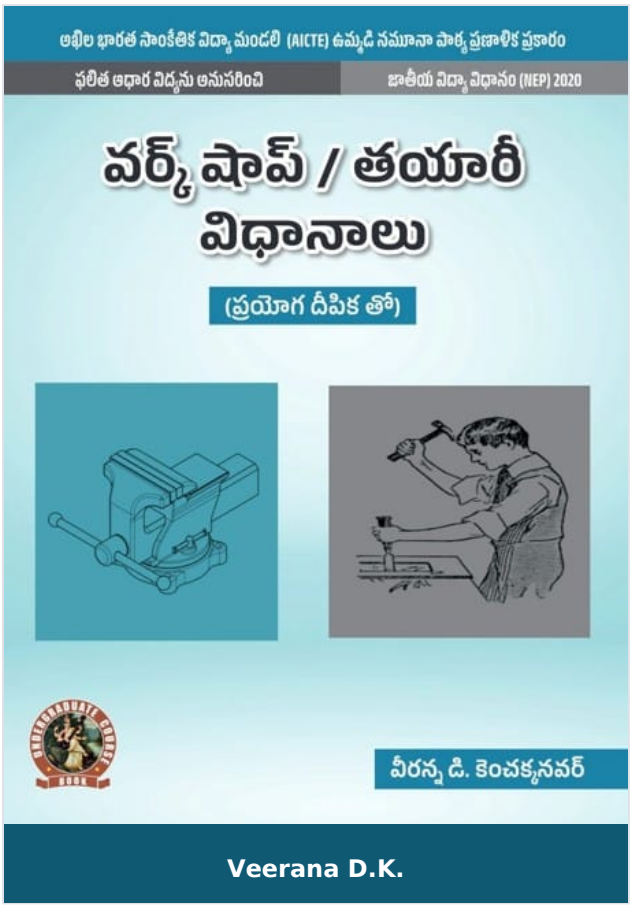

Workshop / Manufacturing Practices

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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

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- 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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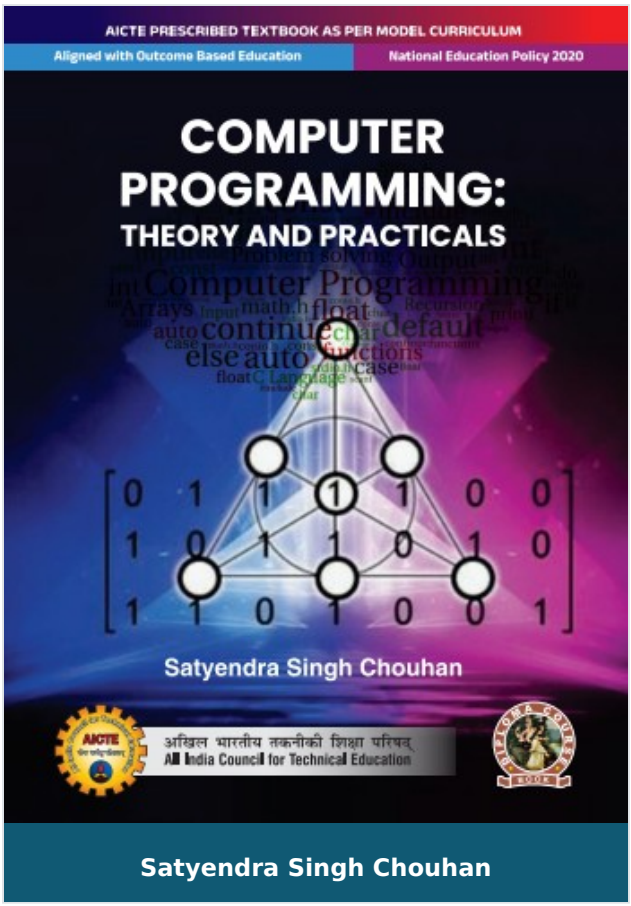

Computer Programming: Theory and Practicals

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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.
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- Index

Author

Satyendra Singh Chouhan

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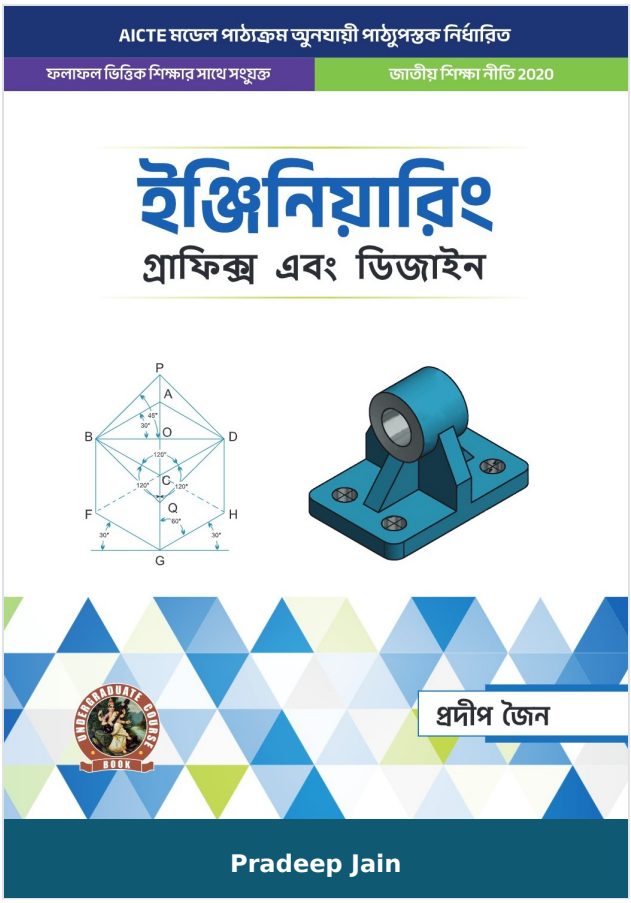

Engineering Graphics & Design

Author :	Pradeep Jain
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This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

Salient Features:

1. Introduction of Engineering Drawing.
2. Orthographic Projection.
3. Projection of Solids.
4. Section of Solids and Development of Surfaces.
5. Isometric Projection.
6. Overview of Computer Graphics.
7. CAD Drawing.
8. Solid Modelling.
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Author

Pradeep Jain

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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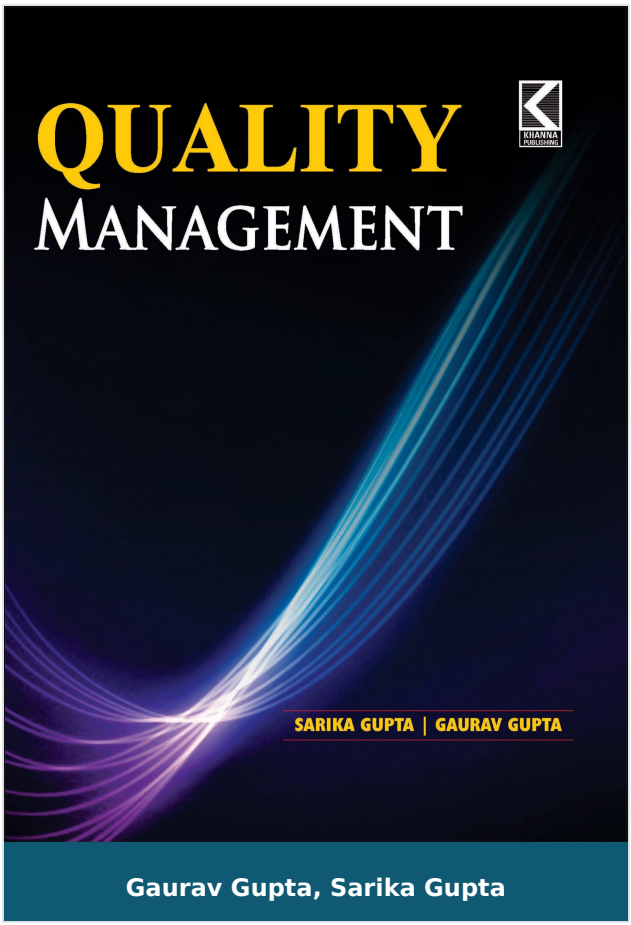

Quality Management

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Product Description

Quality management thinking has influenced a revolution in the way organizations are managed over the past few decades. Idea such as customer focus, ethical management, continuous improvement, Six sigma, leadership and organizational learning have all been impacted by and in some cases developed from this important field. this provides a coherent view of the underlying principles quality management, and how these relate to practical application in a range of organizations. This book is designed to provide an overview of the key elements, important historical context and current debates in the field of quality management. It aims to give a coherent view of the underlying principles of quality management, and how these relate to practical application in a range of organization.

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- Defect Diagnosis
- ISO9000
- MODEL TEST PAPER
- QUESTION BANK

Author

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Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc.

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Sarika Gupta Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has

already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes AdHoc Network, Java, Object Oriented System and Soft Computing etc.

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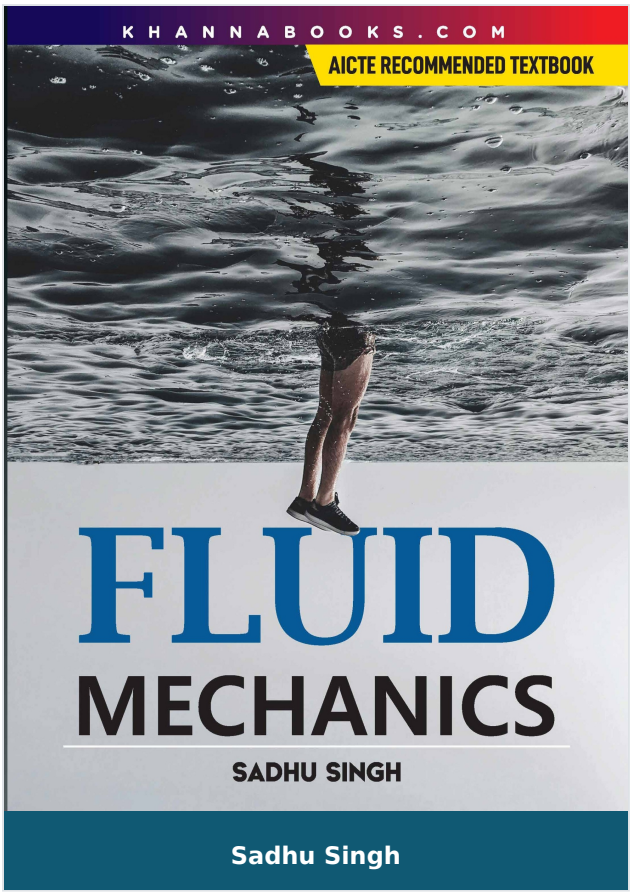

Fluid Mechanics | AICTE Recommended Textbook

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Product Description

This book is a textbook for the B.E./B. Tech. students of All Indian Universities and Institutions. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises. Multi-choice questions from ESE/CSE/GATE.

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- Dimensional and Model Analysis
- Notches and Weirs
- Flow through Open Channels
- Potential Flow
- Multiple Choice Questions
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Author

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

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

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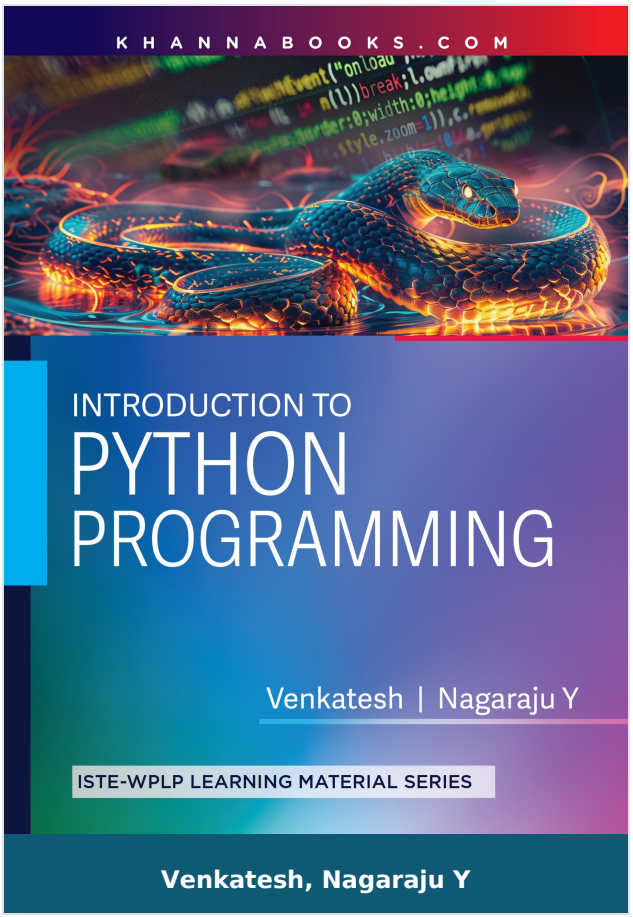

Introduction to Python Programming

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Product Description

The educational objective of this textbook is an Introduction to Python Programming, computer application development using python. This book serves two purpose in general. First, it serves as a text book in a college-level introductory to Python Programming subject. Second, the book is a broad introduction to the python concepts, libraries and tools essential for application development. Learning python has become a prerequisite for computer science graduates because, python has powerful software libraries that make complex tasks simple. The motivation behind writing this book is for the ease of learning Python and the ease of using its libraries in application development.

The textbook's pedagogical approach is to introduce Python programming concepts, Python programming in a easy and understanding manner. The approach followed in this book is more akin to learning a mother tongue, starting from small general-purpose words and then forming sentences and paragraphs.

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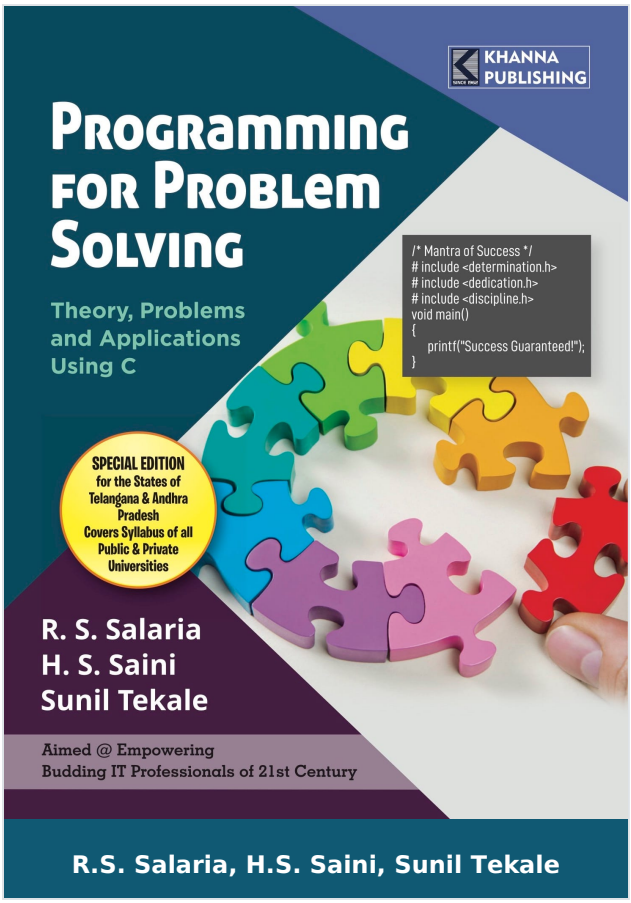

Programming for Problem Solving

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This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills.

Therefore, keeping in mind the requirements of 21st Century, a special emphasis is laid on the following aspects:

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