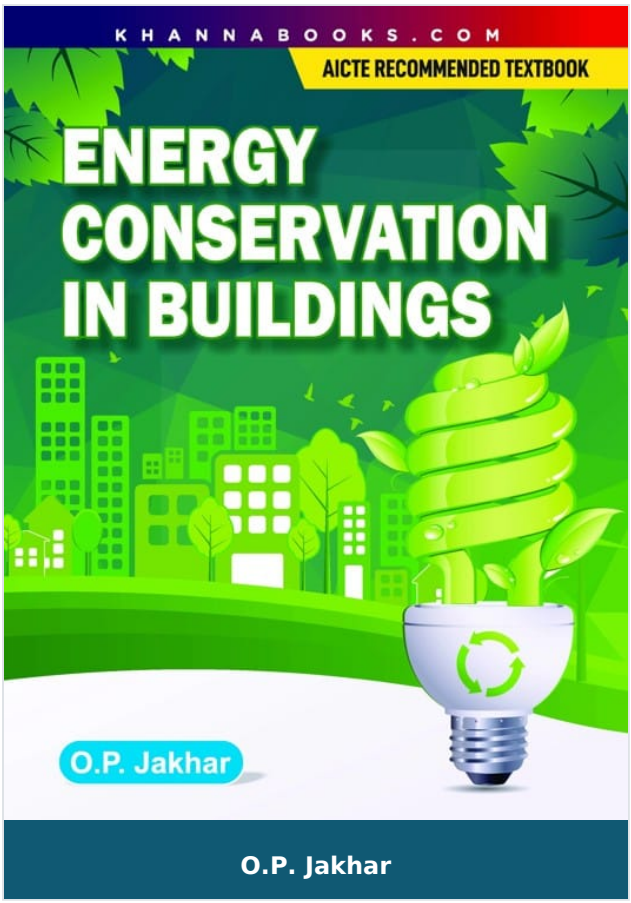


O.P. Jakhar

Energy Conservation in Buildings

Author :	O.P. Jakhar
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Product Description

This book has the basic motive to guide the postgraduate and research students working in the field of energy conservation. This is to cater the strong need felt by the students pursuing the course on energy Conservation in Buildings during their M. Tech. and PhD studies. I have tried to compress the subject matter from the view point of research students. The different simulation techniques, such as Power DOC-2, BSIM 2000, e-Quest, which are extensively used in the energy conservation in buildings, have been added for quick references.

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Table Of Contents

- Chapter-1: Introduction
- Chapter-2: History of Energy Conservation in Building
- Chapter-3: Simulation Techniques of Energy Conservation in Building
- Chapter-4: Passive System of Energy Conservation in Buildings
- Chapter-5: Passive cooling Methods for Building in Hot and Dry Climate
- Chapter-6: Energy Auditing and Radiation Cooling of Building in hot and Dry Climate
- Reference

Author

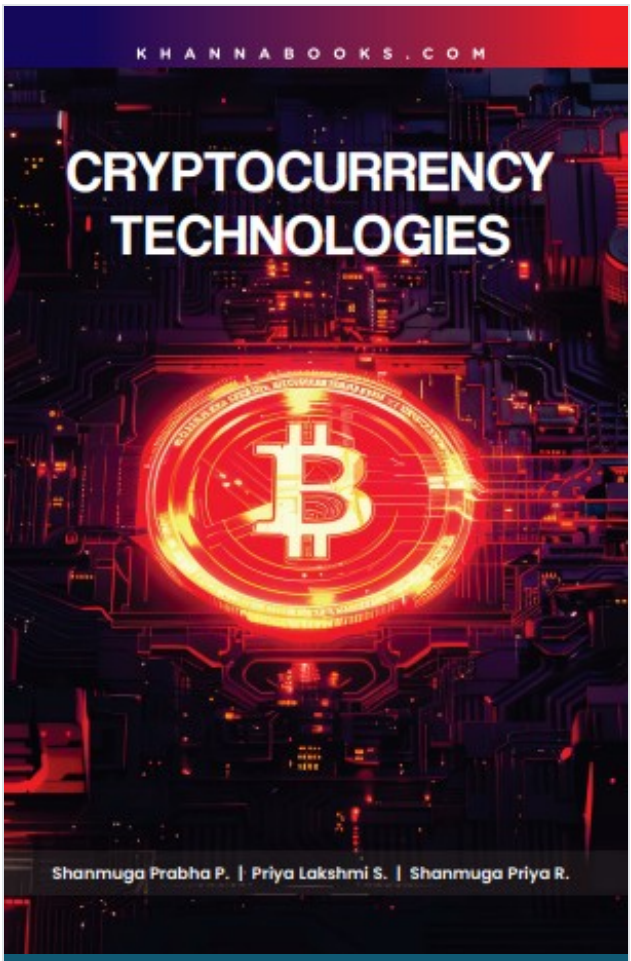
O.P. Jakhar

Dr. O.P. Jakhar got commissioned as Lieutenant in NCC in 2005 and presently he is serving as Captain at 7 Raj. BN. NCC, Bikaner.

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Shanmuga Prabha P., Priya Lakshmi S., Shanmugaa Priyaa R.

Cryptocurrency Technologies

Author :	Shanmuga Prabha P., Priya Lakshmi S., Shanmugaa Priyaa R.
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Product Description

Cryptocurrency Technologies

This book addresses the explosive growth of digital money, which has resulted in an entirely novel phase of decentralized structures, led prominently by the advancements in Bitcoin. As Bitcoin has evolved from an innovative concept into a multi-trillion-dollar business, it fundamentally challenges existing finance paradigms and recasts the concept of trust in digital communication.

Serving as a crucial, detailed resource, this text offers a comprehensive guide to the fundamental concepts, technological advances, and practical implications of digital currencies. It provides a detailed overview of the industry's current condition and possibilities for the future, covering essential topics such as blockchain basics, smart contracts, decentralized finance (DeFi), and emerging digital currency tendencies. Crucially, the text extends beyond core technology to explore the practical uses, legal issues, and wider societal ramifications of decentralized digital assets.

The book's mission is to equip individuals with the knowledge required to engage in and recognize the underlying bitcoin system, guiding readers through the complexity of cryptocurrency technologies in a simple and practical manner. The target audience is broad, encompassing complete beginners, enthusiasts, sector specialists, learners, researchers, programmers, and investors who seek to comprehend the foundations of this constantly evolving world. This academic yet friendly resource provides the necessary understanding to leverage the power of decentralized digital records.

Salient Features:

- **Core Fundamentals**: Systematic review of physical money, digital money, fiat currencies, and interbank payment systems, setting the essential historical context for decentralized finance.

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- **Advanced Cryptography**: Dedicated coverage of cryptographic tools crucial for blockchain security, such as Hash Functions, Digital Signatures (ECDSA), and the principle of Zero Knowledge Proof.
- **Blockchain Architecture**: Detailed explanation of the underlying network structure, covering essential concepts like Nodes, Distributed Consensus, and the Merkle Patricia Tree for data integrity.
- **Bitcoin and Ethereum**: In-depth units on the primitives and workings of Bitcoin (including mining and decentralization) and the Ethereum ecosystem, which revolutionized smart contracts.
- **Smart Contract Development**: Practical instruction on programming Smart Contracts on Ethereum and an overview of the specialized object-oriented Solidity Language used for development.
- **Regulatory Framework**: A comprehensive unit on the Legal Aspects and Regulation of cryptocurrency, discussing stakeholders, exchanges, and its impact on the black market and global economy.
- **Emerging Applications**: Exploration of real-world use cases, including the integration of blockchain with the Internet of Things (IoT), Medical Records Management Systems, and the future trends of the technology.

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Table Of Contents

- Digital Money and Cryptography
- Cryptography and Blockchain Technology
- Cryptocurrency and Blockchain Technology
- Ethereum and Solidity
- Cryptocurrency Regulation and Blockchain Application

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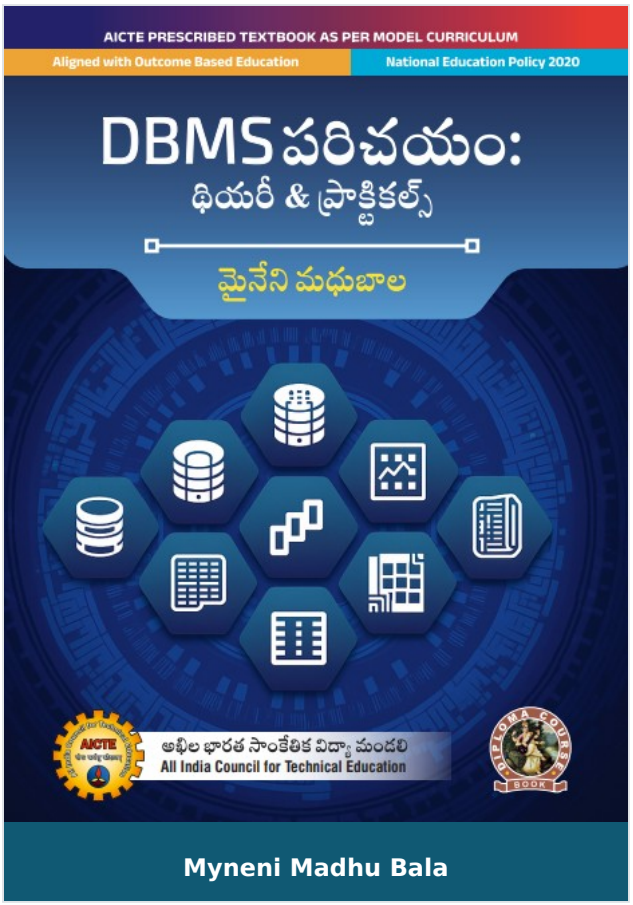
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Introduction to DBMS: Theory & Practicals

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Author

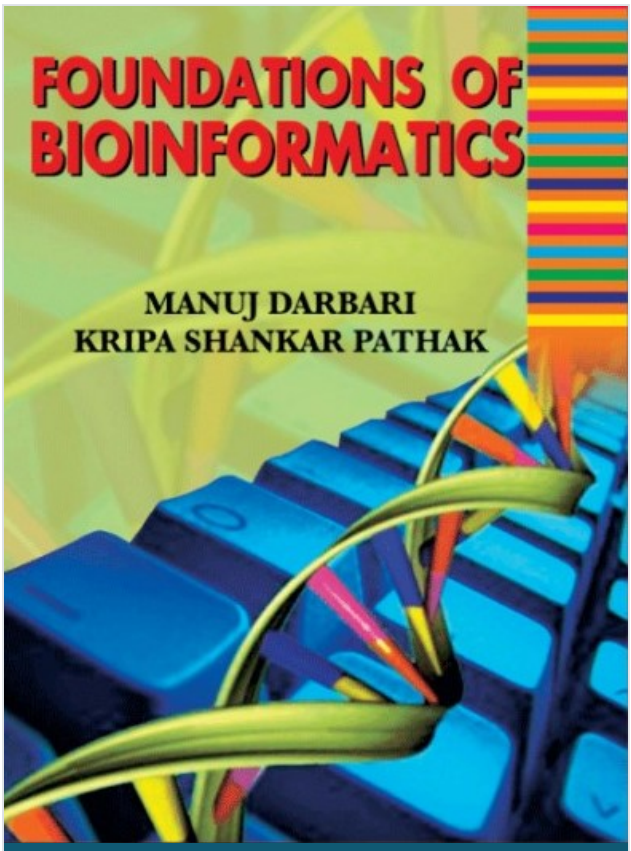
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Manuj Darbari

Foundations of Bioinformatics

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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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Table Of Contents

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

Author

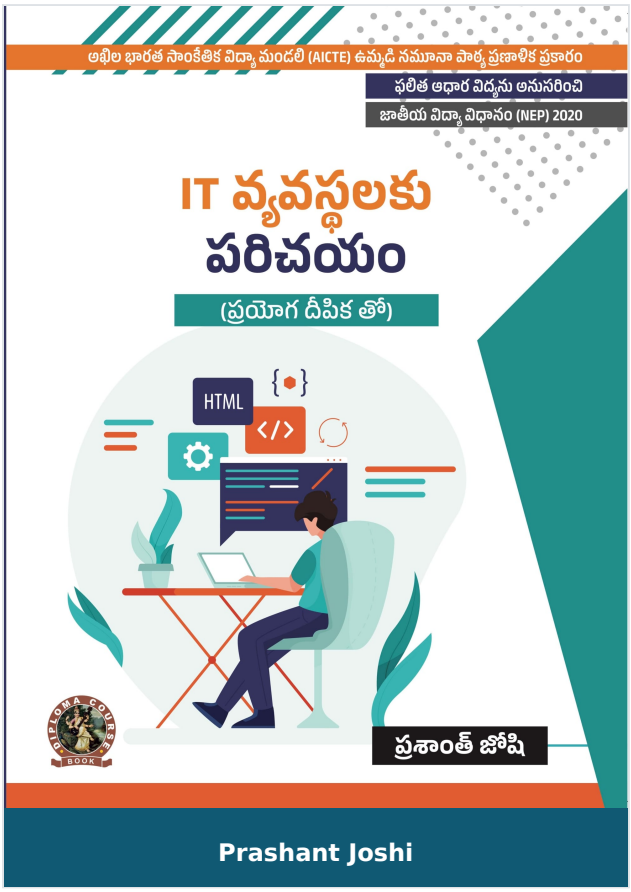
Manuj Darbari

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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Introduction to IT Systems (with Lab Manual)

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Product Description

“INTRODUCTION TO IT SYSTEMS” 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 five units – Internet Skills and Computer Basics, Operating Systems, HTML and CSS, Open Office Tools, and Information Security Best Practices. Each topic in units is written in easy ad lucid manner. Every unit 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 aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Practical are included with each unit for better understanding of the theoretical concepts.

3. Book provides interesting facts and various activities pertaining to topics. OR Codes are used for additional E-resources, use of ICT, online code editors, online quiz etc.

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

5. Figures, tables, source code for web programming, numerous examples and applications are included to improve clarity of the topics.

6. Objective questions, subjective questions and crossword exercises are given for practice of students after every chapter.

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- List of Abbreviations
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students
- Internet skills and computer Basics.
- Operating Systems.
- HTML AND CSS.
- Open Office Tools.
- Information Security Best Practices.
- Annexure
- Appendices
- Index

Author

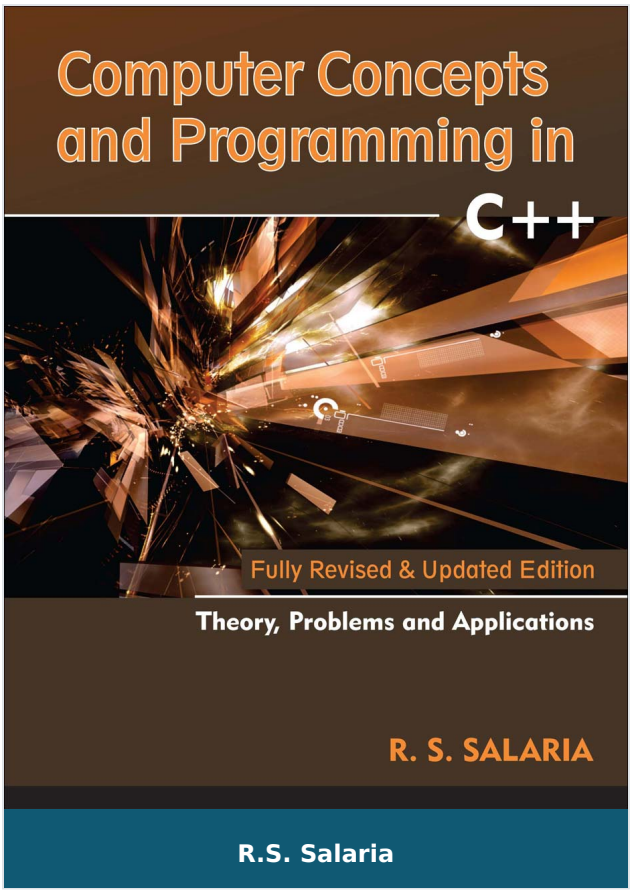
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Computer Concepts and Programming in C++

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Product Description

The Subjects of Fundamentals of Computers and Programming in C++ are compulsory subjects in the syllabus of BCA, BSc (Computer Science), BSc (IT), PGDCA, MSc (Computer Science), MSc (IT), B Tech and MCA of all Indian Universities. This book is designed to serve as a textbook for the students studying in these programs of study and it covers the topics of Fundamentals of Computers as well as Programming in C++ .

The level of presentation in simple and illustrative so that a reader can grasp the subject matter with quite ease. Practically this book will provide you every thing you need on the subject of Fundamentals of Computers and Programming in C++.

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Table Of Contents

- Introduction to Computers
- Computer as a System
- Input/Output Devices
- Memories and Storage Devices
- Introduction to Operating Systems
- Working With Microsoft Word
- Working With Microsoft Excel
- Working With Microsoft PowerPoint
- Internet and Its Applications
- Problem Solving and Program Planning
- Overview of C++ Language
- Data Types, Operators and Expressions
- Handling Input/Output
- Control Statements
- Functions
- Arrays and Strings
- Introduction to OOPS Concept
- Working with Classes and Objects
- Basis of File Handling

Author

R.S. Salaria

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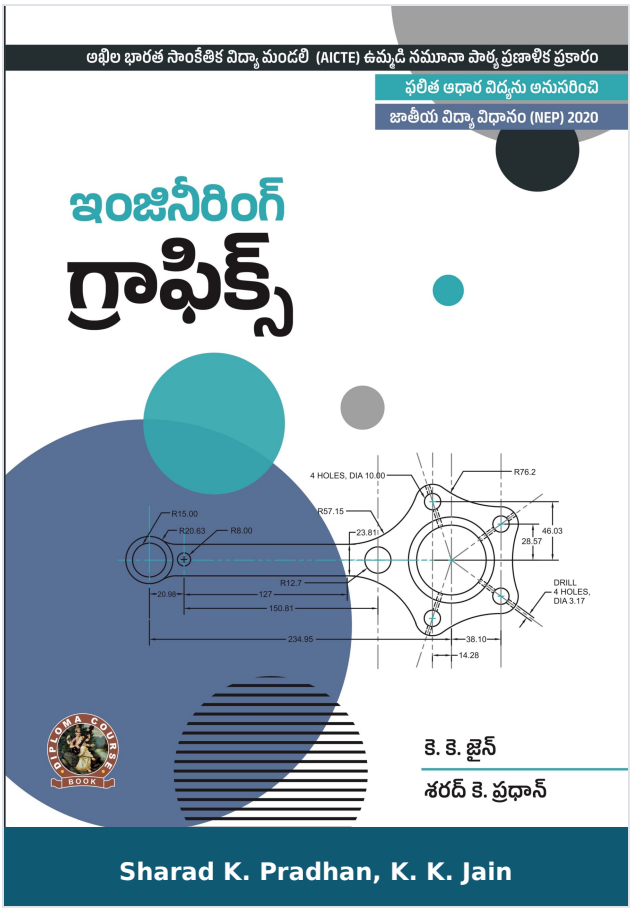
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Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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Engineering Graphics

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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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Table Of Contents

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

Author

Sharad K. Pradhan

Sharad K. Pradhan

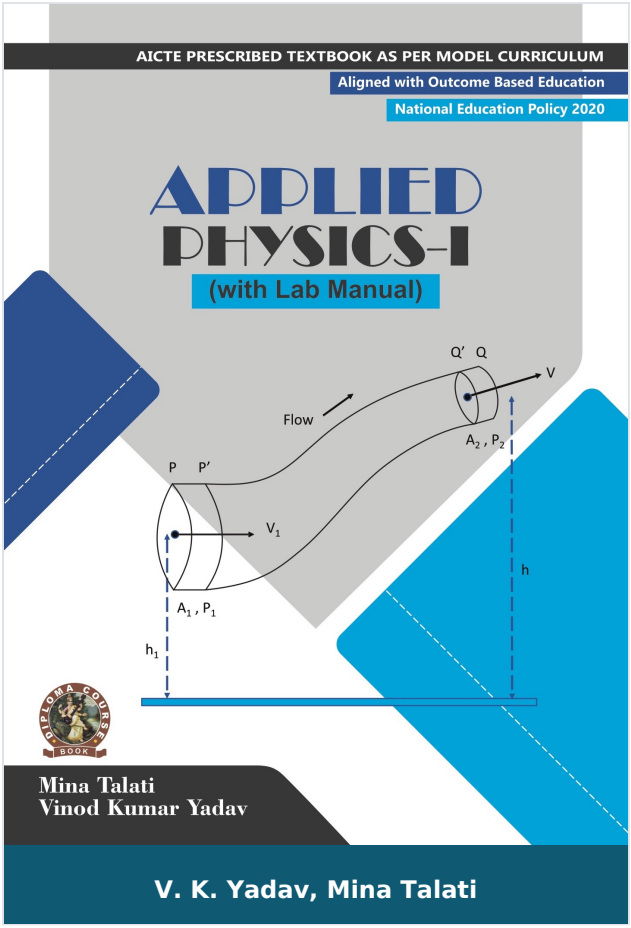
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Applied Physics I (with Lab Manual)

Author :	V. K. Yadav, Mina Talati
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Product Description

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

Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. 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 Outcome, Programs Outcomes and Unit Outcomes.

2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc.

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

4. Figures and tables are inserted to improve clarity of the topics.

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

6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

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Table Of Contents

- Physical World, Units and Measurements
- Force and Motion
- Work, Power and energy
- Rotational Motion
- Properties of Matter
- heat and Thermometry
- Annexes
- Appendices
- Index

Author

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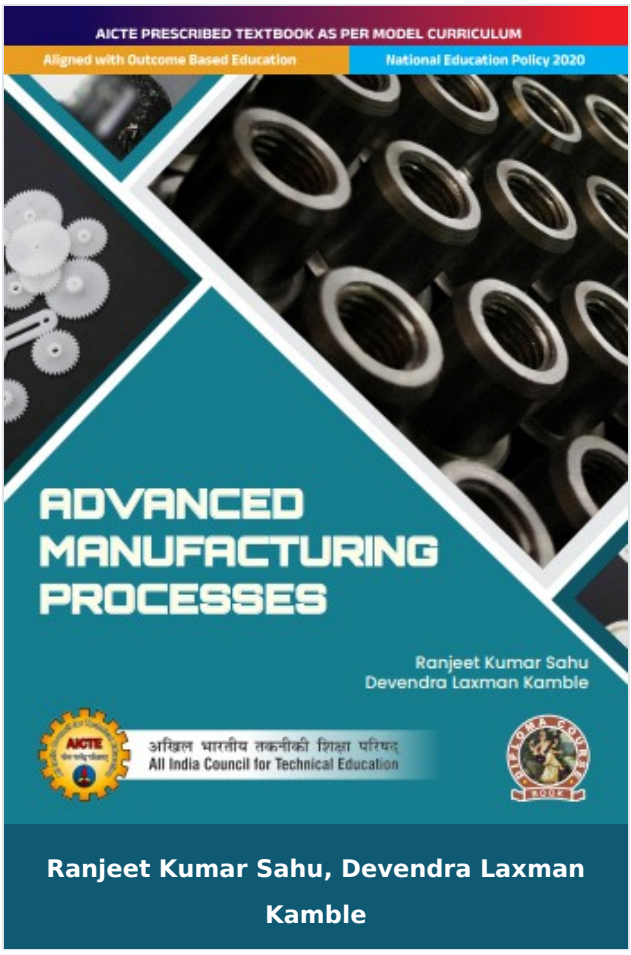
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Advanced Manufacturing Processes

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Product Description

Advanced Manufacturing Processes

The course Advanced Manufacturing Processes provides a fundamental knowledge on work and tool holding devices, machines and tools for processing of materials, and of the scientific principles behind modern processes. The course is presented in five units. Unit 1 deals with the jigs and Fixture; Unit 2 focuses on jig boring and plastic processing; Unit 3 covers modern machining processes; Unit 4 CNC Milling Machines and machine Tool Automation; and Unit 5 deals with special purpose machines and maintenance of machine Tools. All unit in the book provide the objectives of the study and expectations from the students in exercising OBE. This book is designed to serve as a valuable resource, offering both theoretical knowledge and practical guidance, so that the reader can realize the course effectively.

Salient Features:

- The content of the book is aligned with the mapping of course outcomes, programs outcomes and unit outcomes
- Both the student and teacher-centric subject materials are included in the book in a balanced and chronological manner.
- All figures, tables, and others are inserted to improve the clarity of the topic.
- Discussion on each unit helps the overall view of the chapter and helps in answering exercise questions.
- The book provides a lot of information and QR codes for E-resources.
- Explanations with underlying principles and detailed knowledge on machine tools and processes involved are the basics for the course Advanced Manufacturing Processes and, therefore, presented in a systemic way.

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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 Figures
- Jigs and Fixtures
- Jig boring plastic processing
- Modern machining processes
- Machining center
- Special purpose machines (SPMs)
- Bibliography
- Appendix
- CO and PO attainment Table
- Index

Author

Ranjeet Kumar Sahu

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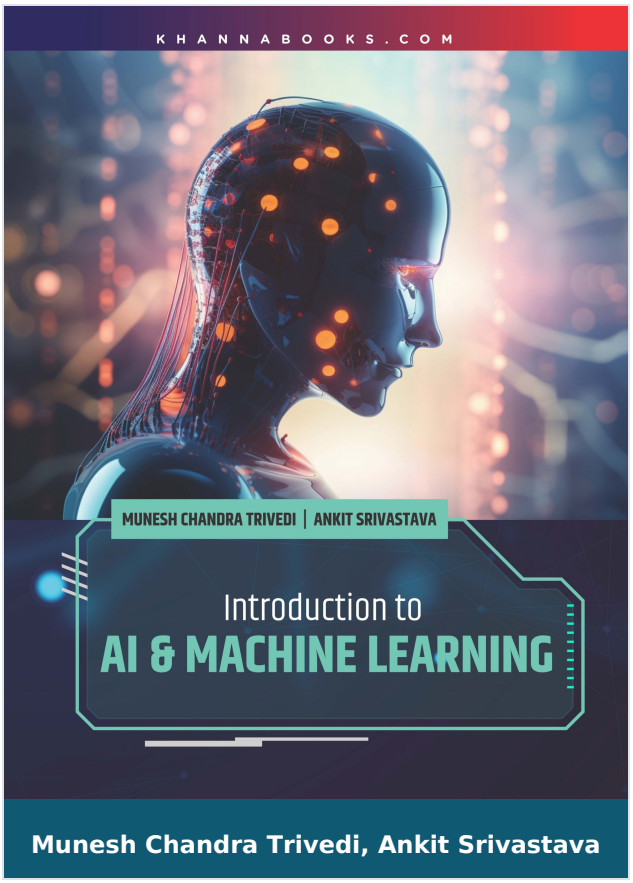
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Introduction to AI & Machine Learning

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Product Description

INTRODUCTION TO AI & MACHINE LEARNING

“Introduction to AI and Machine Learning” is a comprehensive guide designed for readers who are new to the fields of artificial intelligence (AI) and machine learning (ML) The book aims to demystify these valuable insights for those with some foundation Knowledge.

This book is ideal for students and educators seeking a thorough introduction to AI and ML. By the end of the book, readers will have a solid understanding of the fundamental concepts of AI and ML and will be able to write basic AI and ML programs using python.

KEY FEATURES OF THE BOOK

1. Simple Language: Utilizes straightforward and easily understandable language throughout the text.

2. Engaging Learning Experience: Incorporates hands -on activities to enhance the learning experience.

3. Foundational Concepts: Introduces AI and ML, covering weak vs. strong AI, machine learning methods (supervised, unsupervised and reinforcement learning), and optimization techniques.

4. Search Algorithms: Discusses Problem- solving strategies such as BFS, DFS, and A*, with illustrations from examples like the water jug and 8- queen problems.

5. Practical Applications: Highlights real- world applications across various industries, supported by case studies and examples.

6. Hands on Approach: Offers practical exercises and coding examples using python for a better understanding of the subject.

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Table Of Contents

- Artificial Intelligence.
- (Idea of Machine Learning).
- Linear Regression.
- (Logistic Regression).
- (Discussion on clustering).
- Question Bank

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Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award

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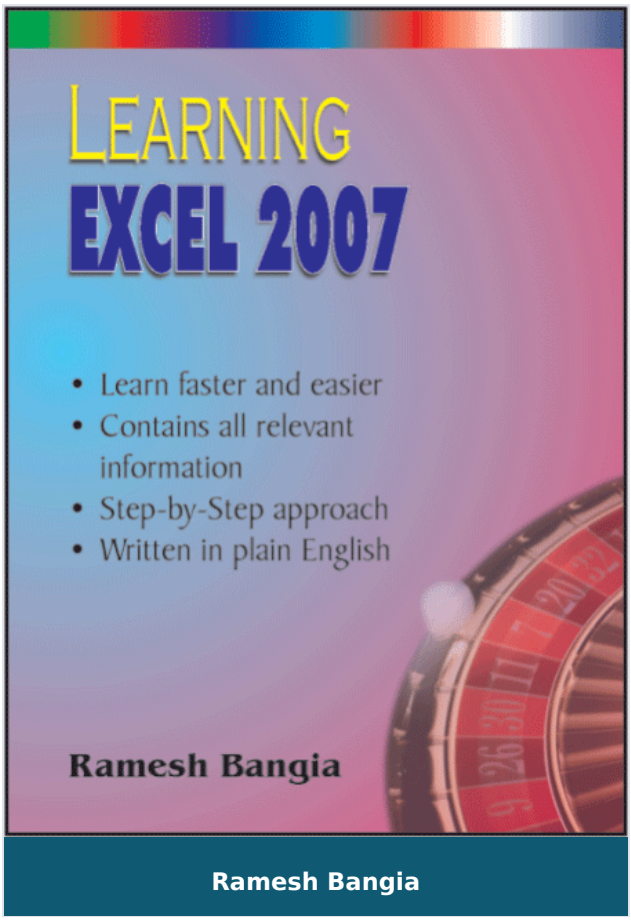
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Table Of Contents

- Introduction to Microsoft Excel 2007
- Spreadsheet Basics
- Creating a Spreadsheet in Excel 2007
- Advanced Techniques of Excel 2007
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- Importing Data in Excel 2007
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- Keyboard Shortcuts in Excel 2007
- Questions

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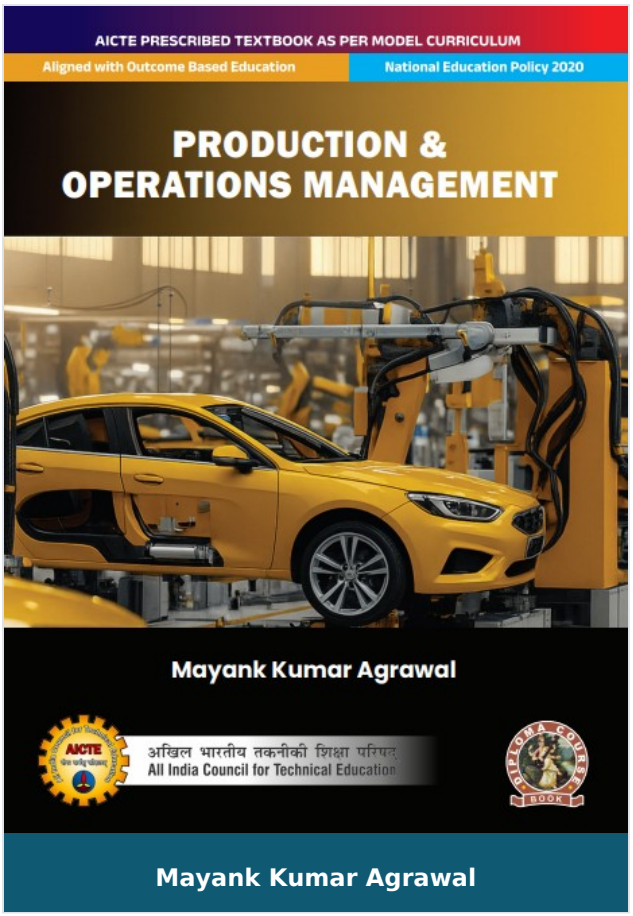
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Production & Operations Management

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Product Description

Production & Operations Management

Production & Operations Management is a field of management that focuses on overseeing an optimizing the process of producing goods and services. It involves planning, organizing, and controlling the activities involved in the production of goods and delivery of services. This book gives detailed description about production management and operation management in industry. The book entitles “production & Operations management” developed as per the model curriculum of AICTE for third year students of mechanical and industrial Engineering.

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.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- 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 systematic step. All chapters have been updated to reflect new techniques, case studies and technologies. Expansion of purpose and impact of strategic planning, including environmental and sustainability issues. Allows students to understand the importance of the field at a higher level, including impacts and benefits to society as a whole.

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- Information included on lean production concepts and theory of constraints. Theory of constraint provides an interesting and potentially effective alternative method to think about several of the concepts in the book, and can help students compare and contrast theory of constraints with non-theory of constraint approaches.
- Book provides lots of recent information, interesting facts, QR code for E-resources etc.

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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 Figures
- Process Planning and Process Engineering
- Production Forecasting and Scheduling
- Break-Even Analysis & Aggregate Operations Planning
- Assembly Line Balancing
- Material Management
- Annexure
- CO and PO Attainment Table
- Index

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