



Applied Physics-II (with Lab Manual)

Author :	Hussain Jeevakhan
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Product Description

“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.
2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.
3. Content presented in book in chronological way.
4. Figures, tables and equations are given to improve clarity of the topics.
5. Solved examples are given with systematic steps.
6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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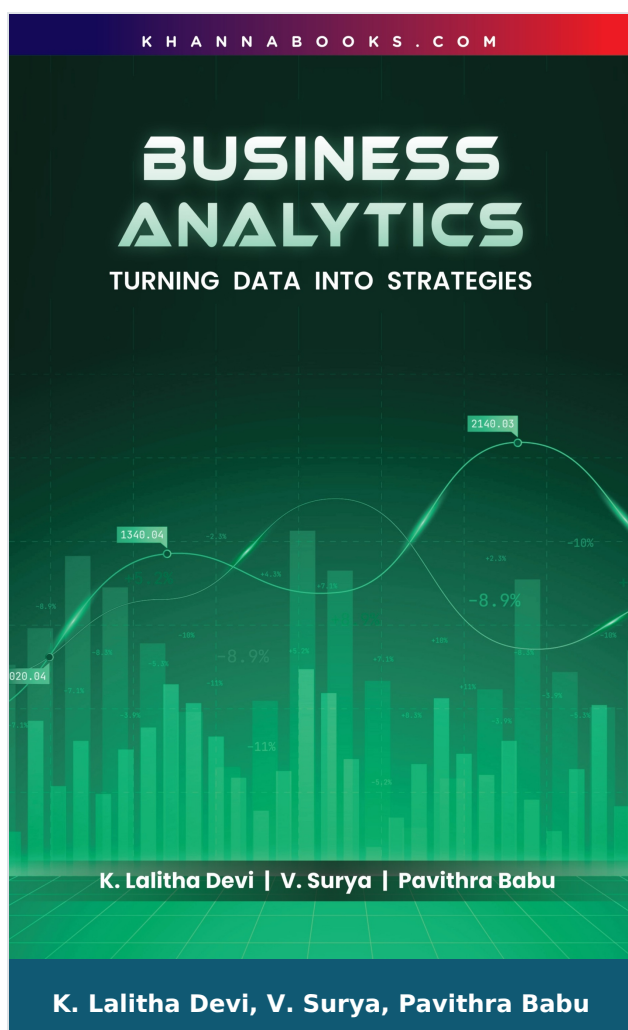
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- Semiconductor physics.
- Modern physics.
- Index

Author

Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student's learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student's learning. Some salient features of the book: | Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. | Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. | Content presented in book in chronological way. | Figures, tables and equations are given to improve clarity of the topics. | Solved examples are given with systematic steps. | MCQ's, short and long answer questions and unsolved problems of understanding and above levels (Bloom's Taxonomy) are given for learning reinforcement of students and as per OBE.



Business Analytics (Turning Data into Strategies)

Author : K. Lalitha Devi, V. Surya, Pavithra Babu

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M.R.P : Rs 248.00

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[Sathyabama Series](#)

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Product Description

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

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

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

Salient Features:

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

- **Data Architecture Explained:** Provides in-depth coverage of Data Warehouse and Data Lake architectures, detailing the ETL/ELT process and their critical role in supporting efficient strategic reporting.
- **Core Data Mining:** Discusses foundational Data Mining concepts, including OLAP, Association Analysis, and Cluster Analysis to discover hidden patterns for effective decision optimization.
- **Text & Web Analytics:** Guides readers through techniques like Natural Language Processing and Sentiment Analysis to extract meaningful insights and trends from unstructured sources like social media and web data.
- **Strategic Performance KPIs:** Details the Business Performance Management cycle, covering the setting of objectives, monitoring of Key Performance Indicators (KPIs), and utilizing real-time dashboards.
- **Industry Applications:** Showcases practical applications of BA in various business functions, including Finance, HR, Operations, Retail, and Healthcare, to solve complex real-world challenges.
- **Big Data & AI:** Integrates discussions on high-volume, high-velocity Big Data (the 5 Vs) and the application of AI and Machine Learning algorithms for advanced predictive and prescriptive solutions.

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

Author

K. Lalitha Devi

K. Lalitha Devi

V. Surya

V. Surya

Pavithra Babu

Pavithra Babu



Blockchain and Cryptocurrency

Author : D. Geethanjali, R. Jeberson Retna Raj

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Condition Type : New

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Product Description

The world is undergoing a massive paradigm shift in how we manage trust, data, and digital value. BLOCKCHAIN AND CRYPTOCURRENCY offers a comprehensive and accessible journey into the heart of this technological revolution, moving beyond the hype of market trends to explore the foundational principles of decentralized systems. Written with a holistic approach, this book breaks down the intricate mechanics of blockchain technology—including consensus algorithms, cryptography, and P2P networking—making them understandable for both curious beginners and aspiring developers.

The text provides a deep dive into the evolution of digital money, from the pioneering launch of Bitcoin to the advanced smart contract capabilities of Ethereum and the burgeoning world of Decentralized Finance (DeFi). Readers will explore real-world applications across diverse sectors such as healthcare, finance, and governance, while gaining critical insights into the ethical, regulatory, and security challenges that face the industry today. Whether you are a student seeking academic clarity or a professional looking to leverage decentralized applications, this book serves as an essential guide to the future of the digital economy.

Salient Features:

- **Comprehensive Technical Foundations:** Detailed explorations of blockchain architecture, including P2P networking, block structures, and the logical components of decentralized ecosystems.
- **Smart Contract Mastery:** In-depth coverage of Ethereum and the development of self-executing contracts using Solidity and Javascript to automate complex business logic.
- **Cryptocurrency Lifecycle Insights:** Clear explanations of the mining process, transaction lifecycles, and the role of wallets and private keys in securing digital assets.

- **Robust Security Analysis:** A critical look at security and privacy issues, covering common types of attacks, encryption methods, and strategies for system enhancement.
- **Practical Industry Applications:** Real-world use cases demonstrate how blockchain transforms sectors like healthcare EHRs, supply chain logistics, and cross-border trade finance.
- **Governance and E-Governance:** Examination of decentralized governance models and the potential for blockchain to streamline public health tracking and land registries.
- **Economic and Ethical Implications:** Insightful discussions on the "dark side" of crypto, including scams, money laundering, and the evolving global regulatory landscape.
- **Future-Ready Learning:** Focus on emerging trends and the transition from traditional centralized institutions to a world where trust is embedded in technology

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- Introduction to Blockchain
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- Introduction to Bitcoin
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- Security and Privacy Issues of Blockchain Technology

Author

D. Geethanjali

D. Geethanjali

R. Jeberson Retna Raj

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Compiler Design

Author :	B. Ankayarkanni, D. Usha Nandini, A. Mary Posonia, V. Ulagamuthalvi
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Product Description

Compiler Design offers a comprehensive and organized introduction to the foundational principles, techniques, and practical tools necessary for constructing a compiler. Serving as an essential bridge between human-readable high-level programming languages and machine instructions, this book aims to unravel the complexity of the translation process and demystify compiler construction for both students and academics.

The book systematically guides readers through the entire compiler lifecycle, detailing each major phase: Lexical Analysis, Syntax Parsing, Semantic Analysis, Intermediate Code Generation, Code Optimization, and Final Code Generation. It adopts an approachable, academic tone, striving to simplify both fundamental ideas and advanced concepts by integrating theoretical foundations with practical implementations. For enhanced comprehension, the material is reinforced with a combination of theoretical discussions and numerous solved numerical problems. Furthermore, a strong emphasis is placed on practical skill development, featuring dedicated coverage of industry-standard tools like LEX and YACC, ensuring the target audience—computer science students and professors—gains hands-on experience in building real-world compilers. This indispensable resource provides a clear pathway to mastering the art and science of transforming source code into efficient, executable programs.

Salient Features:

- **Systematic Phase Coverage:** Presents the compiler's structure through distinct, organized units, detailing the functionality of the analysis-synthesis model from scanning to code generation.
- **Practical Tool Integration:** Provides detailed sections on using LEX and YACC (Yet Another Compiler Compiler), giving students hands-on experience in generating practical Lexical Analyzers and Parsers.

- **Comprehensive Parsing Methods:** Explores a full range of parsing techniques, including Top-Down (LL(1)) and sophisticated Bottom-Up (LR, SLR) parsing, complete with error handling and recovery strategies.
- **Intermediate Code Representation:** Dedicated unit focusing on Syntax-Directed Translation (SDT), implementing three-address code, and handling complex programming constructs like procedure calls and switch-case statements.
- **Advanced Optimization Techniques:** Covers crucial optimization strategies like Data Flow Analysis, Loop Optimization, and the use of Directed Acyclic Graphs (DAGs) for efficient, high-speed target code generation.
- **Efficient Code Generation:** Discusses critical implementation issues such as managing Run-Time Storage, optimal Register Allocation and Assignment, and the final conversion of assembly code to machine code.
- **Formal Language Foundation:** Clearly explains the role of Formal Languages, covering Regular Expressions and both Deterministic and Non-Deterministic Finite Automata (DFA/NFA) conversions in lexical design.

Table Of Contents

- Introduction to Compiler
- Syntax Analysis
- Syntax Directed translation and Intermediate Code Generation
- Code Optimization
- Code Generation

Author

B. Ankayarkanni

B. Ankayarkanni

D. Usha Nandini

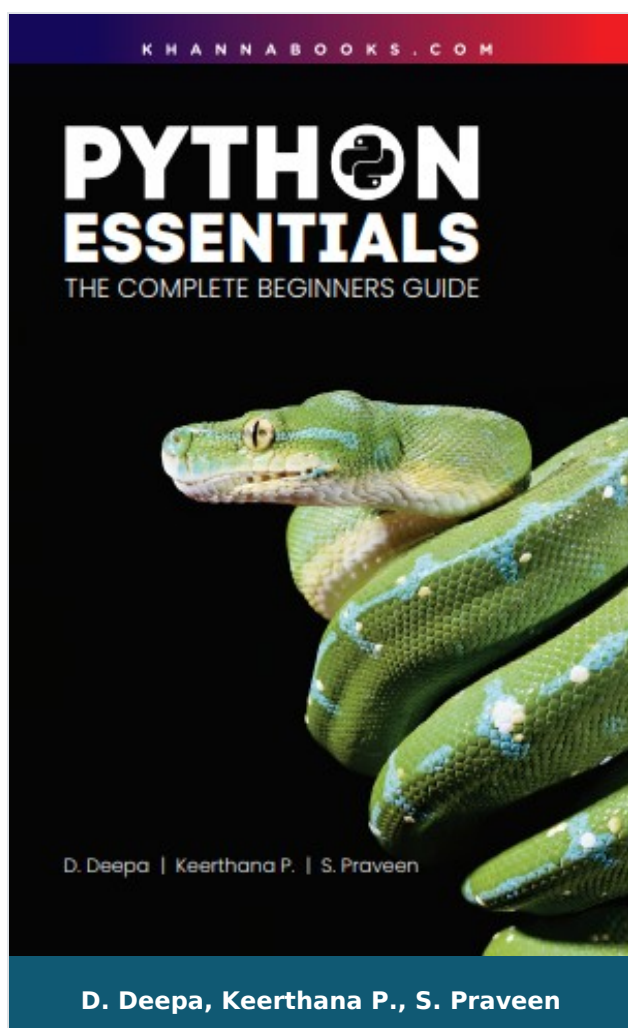
D. Usha Nandini

A. Mary Posonia

A. Mary Posonia

V. Ulagamuthalvi

V. Ulagamuthalvi



Python Essentials (The Complete beginners Guide)

Author : D. Deepa, Keerthana P., S. Praveen

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Product Description

Python Essentials (The Complete beginners Guide)

Python is the bedrock of modern technology—powering everything from Data Science and Machine Learning to Web Development and System Automation. But where do you start?

Python Essentials: The Complete Beginner's Guide is your definitive, practical roadmap. Built specifically for absolute beginners, this book capitalizes on Python's simple, English-like syntax to ensure a swift and successful journey into coding.

This guide moves beyond theory, equipping you with the fundamental logic and Object-Oriented Programming (OOP) principles needed for professional work. By the time you finish, you won't just know Python; you'll be able to build, debug, and implement real-world solutions. Launch your career or elevate your productivity—the power of Python starts here.

Salient Features:

This guide provides a complete, hands-on path to Python mastery, focusing on modern, practical skills:

- **Core Foundations:** Master the essential building blocks, including variables, expressions, and primary data structures (Lists, Strings, Tuples, Dictionaries).
- **Object-Oriented Programming (OOP):** Gain a clear understanding of OOP principles (Classes, Objects, Inheritance) to write robust, scalable, and reusable code.
- **GUI and Database Development:** Develop practical tools by learning to build Graphical User Interfaces (GUI) with Tkinter and manage data using the SQLite database library.
- **Debugging and Error Handling:** Acquire crucial development skills like effective Exception Handling and code tracing using Python's built-in debugger, pdb.

- **Real-World Project Skills:** Learn to manage projects professionally with topics like File Handling, utilizing Virtual Environments, and performing efficient Code Reviews.
- **Versatile Programming:** Understand Python's support for multiple paradigms, including procedural, functional, and object-oriented styles, preparing you for any job role.

Table Of Contents

- Introduction to Python and Basic Constructs
- Object-Oriented Programming Concepts
- Functions, File Handling, and Error Handling
- GUI Programming and Database Handling
- Networking and Hands-on Project

Author

D. Deepa

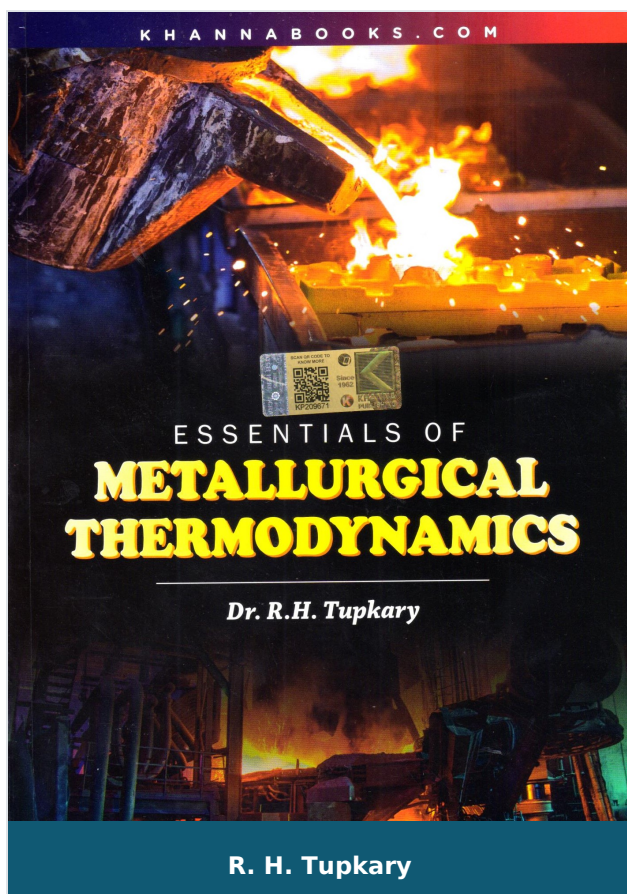
Deepa, Keerthana P., S. Praveen

Keerthana P.

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Essentials of Metallurgical Thermodynamics

Author :	R. H. Tupkary
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Product Description

Thermodynamics is the very basic science to appreciate all engineering disciplines, more particularly the chemical, metallurgical and mechanical engineering in terms of the efficiencies in various related operations that is why metallurgical thermodynamics has been developed specifically to understand the metallurgical engineering processes and their energy efficiencies. Any change is driven by the potential driving it.

Thermodynamics is the tool to appreciate that potential and to assess the related energy efficiency. Hence thermodynamics is the basic tool that helps to assess finally the economics of any metallurgical process. The more one understands it the better. The present book attempts to explain the very basic thermodynamic concepts underlying metallurgical engineering operations and therefore the related economics.

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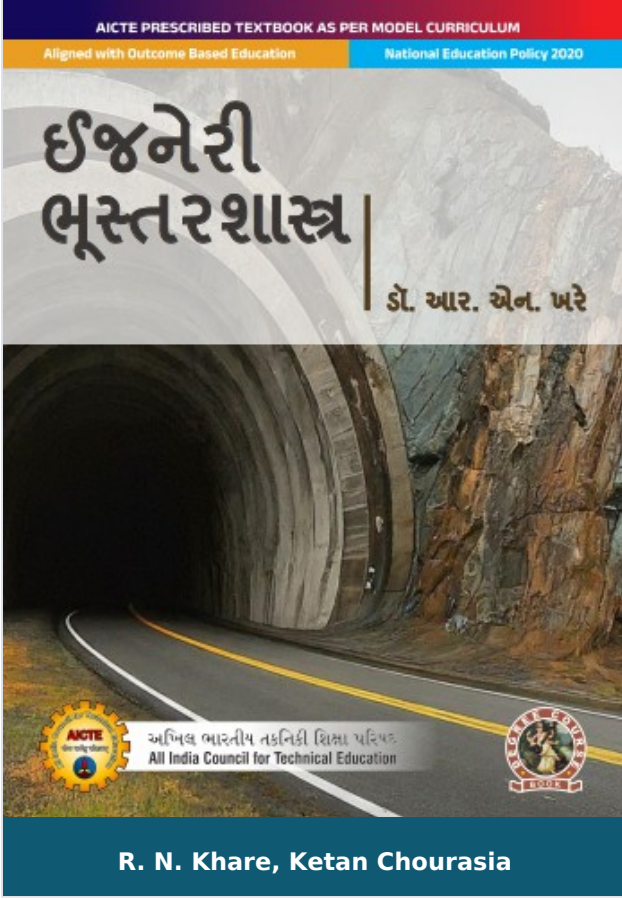
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- Electrochemical Processes
- Free Energy - Temperature Relationship
- Kinetics of Reactions

Author

R. H. Tupkary

R.H. Tupkary Dr. R. H. Tupkary graduated in Met. Engg. from Banaras Hindu University in 1959 in first class and was placed at third position in merit list. He completed M.Eng.Sci. and Ph.D. from University of Melbourne in 1963 and 1966 respectively. He worked as a lecturer in Met. Engg. during 1959-62 and Reader during 1966-1970 period in BHU and then joined Visvesvaraya Regional College Engineering, Nagpur as Professor and later became head and voluntarily retired in 1994. Dr. Tupkary is a recipient of Binani Gold

Medal of Indian Institute of Metals in 1972 and Distinguished Alumnus Award of BHU in 1988. He has published several technical papers and is more known for his two books, one on Steel Making and the other on Iron Making which are very popular textbooks of the subjects since 1977. Out of these two books, "Steel Making" was written when he was confined in Nagpur Central Jail during the emergency period of 1975-77. During his tenure as professor in VRCE, he was actively associated with Nagpur University, through its various academic and administrative bodies as their elected member. He has also worked as Managing Director of one Marathi daily published from Nagpur during the period 1994-97. He is committed social worker and is associated with varieties of such activities at and around Nagpur.



Engineering Geology

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Product Description

Engineering Geology

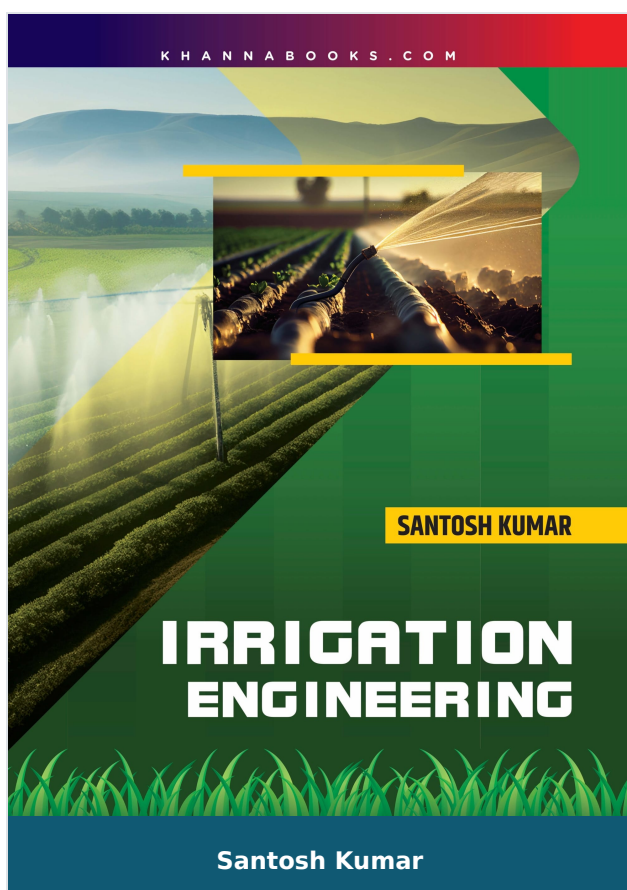
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Irrigation Engineering

Author :	Santosh Kumar
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Product Description

IRRIGATION ENGINEERING

With rapidly changing climate, importance of irrigation is being realized more and more. Present book is focused on the Engineering part of irrigation. The Book is written in precise form omitting chapters on which exclusive books are available. The book can be useful mostly to undergraduate student pf the civil writing various Competitive examinations. Any suggestion for enhancing the quality of the book is most welcome.

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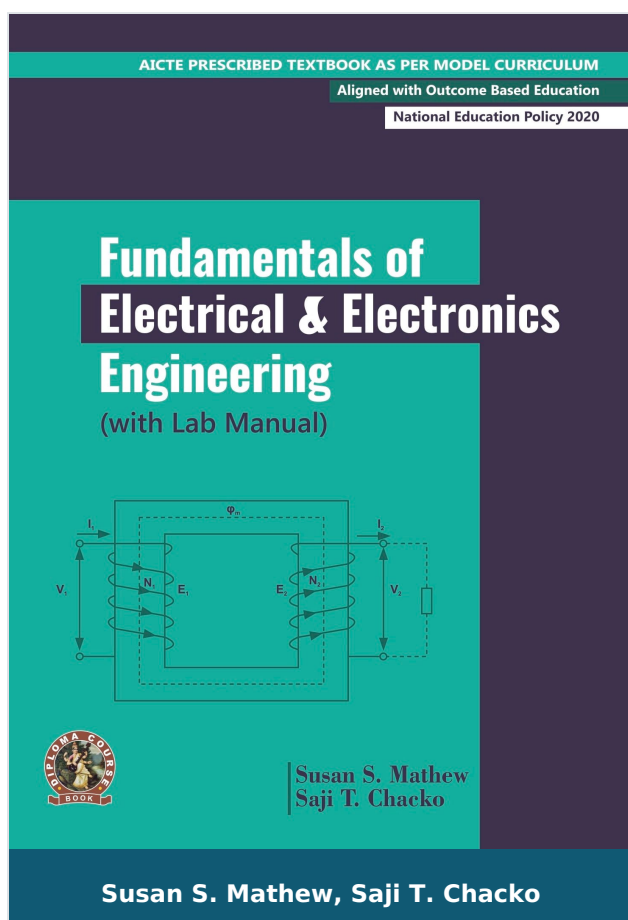
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- Appendix

Author

Santosh Kumar

Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional

Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).



Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

Author : Susan S. Mathew, Saji T. Chacko

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[Ebooks, APPLIED SCIENCES &](#)
[HUMANITIES](#)

Condition Type : New

Country Origin : India

Product Description

“Fundamentals of Electrical & Electronics Engineering” 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.
3. Book provides lots of vital facts, concepts, principles and other interesting information.
4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.
5. Student and teacher centric course materials included in book in balanced manner.
16. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.
7. Objective questions and subjective questions are given for practices of students at the end of each unit.

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

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- Electric and Magnetic Circuits.
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- Transformer and Machines.
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- Co and PO Attainment Table
- Index

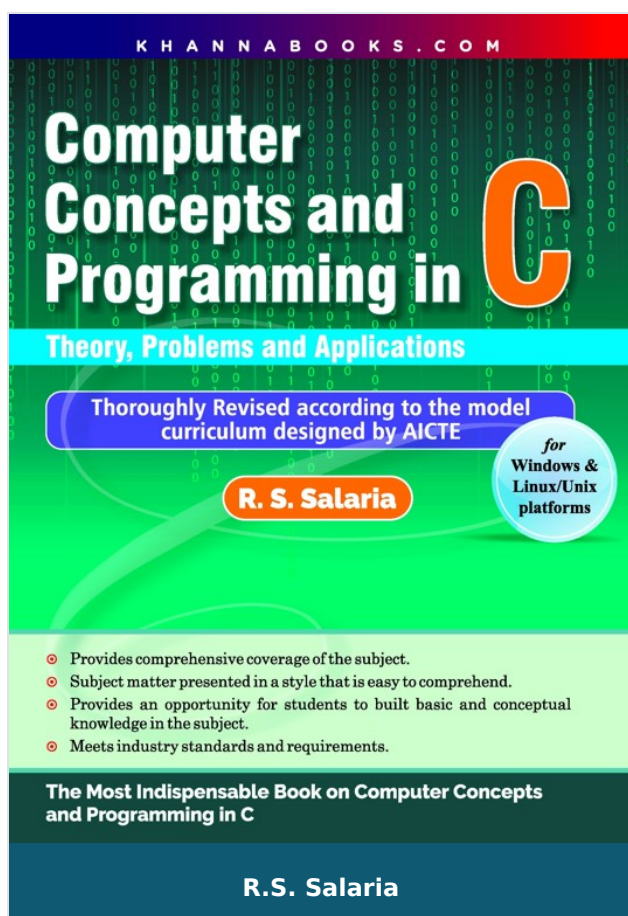
Author

Susan S. Mathew

Susan S. Mathew

Saji T. Chacko

Saji T. Chacko </p>



Computer Concepts and Programming in C

Author :	R.S. Salaria
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Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

The subject on Computer Concepts and Programming in C (or with the name Fundamentals of Computer and Programming in C) is one of the core courses in various undergraduate and postgraduate program of various ins tuition and universities of India. This book is designed to serve as textbook for those program of study.

While writing the book. special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease.

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- Software Concepts
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- Decision Making and Looping
- User-Defined Function
- Arrays and Strings
- Implementation of Basic Algorithms
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- File Handling
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Author

R.S. Salaria

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>