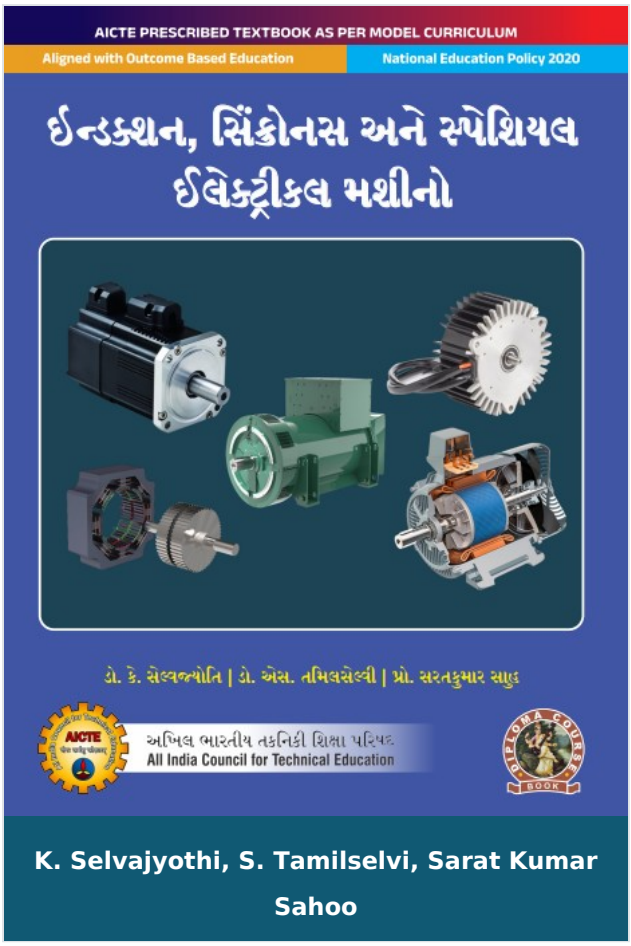

Induction, Synchronous, and Special Electrical Machines

Author :	K. Selvajyothi, S. Tamilselvi, Sarat Kumar Sahoo
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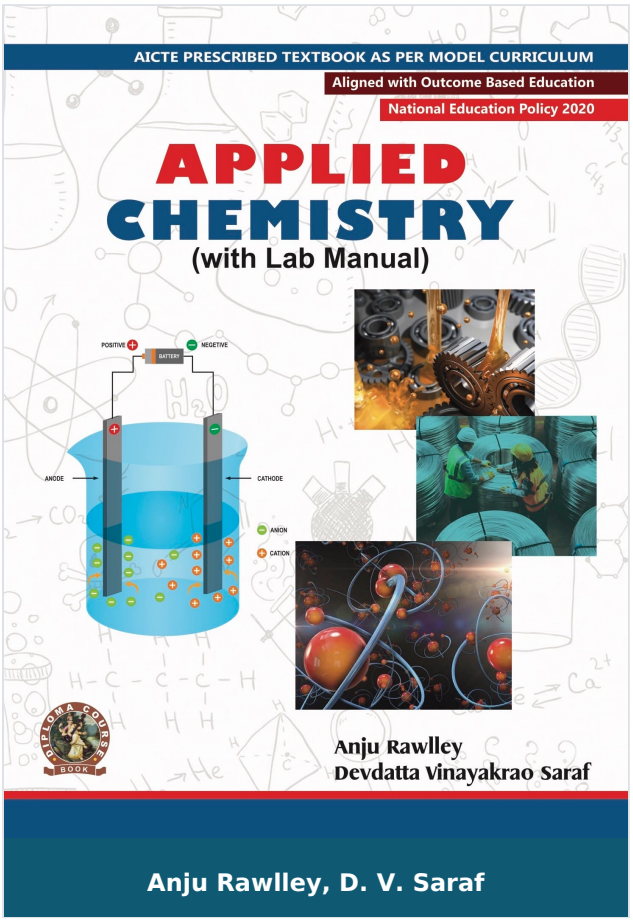

Applied Chemistry (with Lab Manual)

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Product Description

This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with program Outcomes.

2. Utmost care have been taken to amalgamate the philosophy of outcome based education.

3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.

4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.

5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause and effect relationship, systematic, scientific & logical thinking , ability to observe, analyse and interpret.

6. To meet the requirement of outcome based education (OBE) and outcome based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.

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7. Sample QR codes have been provided in each units on some topics/sub topics for supplementary reading and reinforcing the learning.

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- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakarao Saraf

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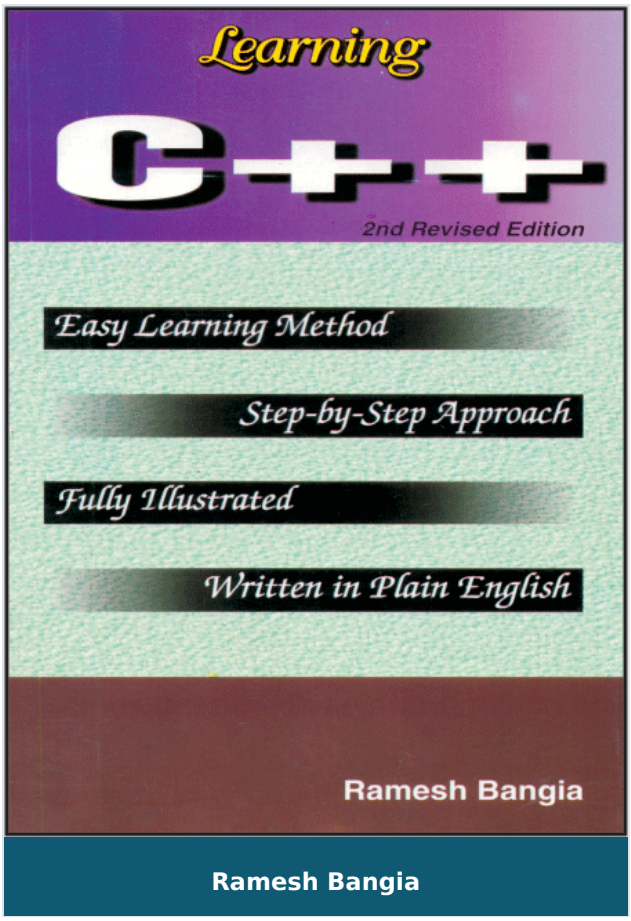

Ramesh Bangia

Learning C++

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Product Description

Learning of a software is both easy and difficult. It depends upon what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realise how difficult it is to master it. C++ 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 will just guide you how to use the stairs.

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- Constructor and Destructor Functions
- Objects and Function Overloading
- Inheritance
- Pointers
- Standard Library Functions and Header Files
- Programming Methology
- Examples
- Glossary of Key Words
- 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

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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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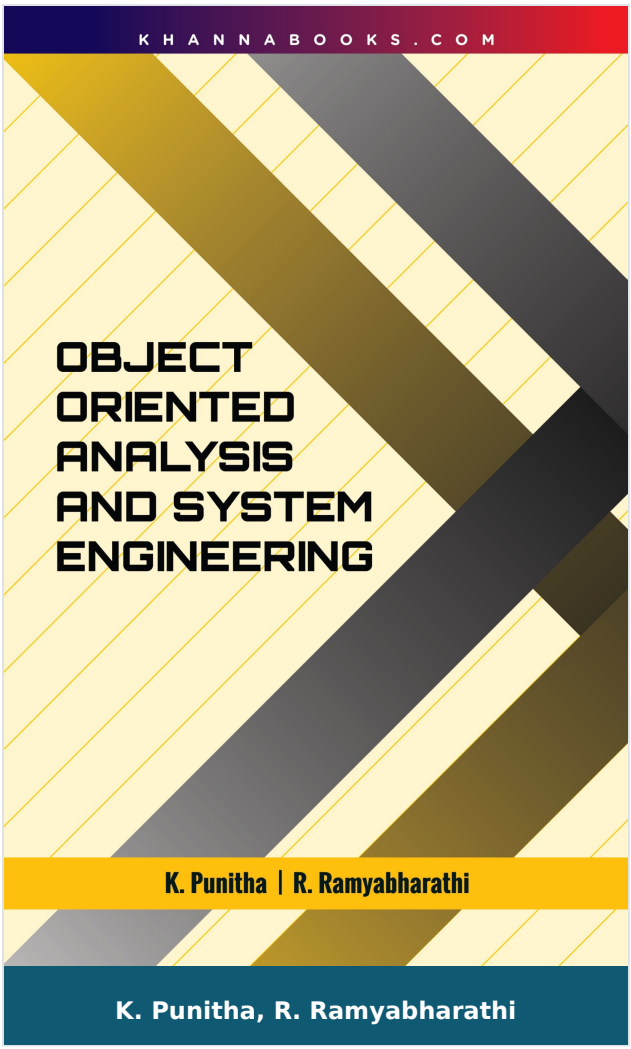

Object Oriented Analysis and System Engineering

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Product Description

OBJECT ORIENTED ANALYSIS AND SYSTEM ENGINEERING serves as a foundational and comprehensive guide to Object-Oriented System Development (OOSD), a cornerstone of modern software engineering. In today's rapidly evolving technological landscape, the book addresses the critical need for robust, scalable, and maintainable software solutions by providing a structured methodology for building complex, reusable, and efficient systems.

The book delivers the fundamental concepts of object-oriented thinking, commencing with an in-depth exploration of object basics, including objects, classes, inheritance, polymorphism, and encapsulation. It systematically covers the entire Object-Oriented System Development Life Cycle (OOSDLC), offering a holistic view from initial requirements Analysis to Design and final Software Quality Assurance.

The practical value of this text lies in its detailed coverage of object-oriented methodologies—such as Rumbaugh's OMT, Booch, and Jacobson's methods—and the standard Unified Modeling Language (UML) for modeling, design, and documentation. Furthermore, it emphasizes the importance of a use-case driven approach for requirements identification and the application of reusability and component-based development for producing high-quality software. This essential reference is explicitly designed for a wide audience, including students, academicians, researchers, developers, industry professionals, and technology enthusiasts who are seeking to develop a strong background in object-oriented system development and leverage its power for creating innovative solutions.

Salient Features:

• Core OOSD Concepts: Introduces foundational OOSD principles, including encapsulation, inheritance, polymorphism, and object-message communication, establishing a solid base

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for advanced object-oriented programming.

• Unified Methodologies: Details seminal O-O approaches like Rumbaugh's OMT, Booch, and Jacobson's methodologies, emphasizing their unification via the Unified Approach to standardize the software development process.

• UML and Modeling: Explores the Unified Modeling Language (UML) as the industry standard, detailing its static, dynamic, and use-case diagrams to accurately model complex system structures and behaviors.

• Use-Case Driven Analysis: Teaches practical object identification using a problem-driven approach, employing use-case modeling and classification techniques to clearly define system requirements from the user's perspective.

• Design Axioms & Layers: Explains Object-Oriented Design (OOD) with key axioms and corollaries, detailing the design of the Access (persistence/databases) and View (user interface) layers of the system.

• Object Persistence: Provides an in-depth look at managing data persistence using Object-Oriented Database Management Systems (OODBMS) and Object-Relational Database Management Systems (ORDBMS) for complex data handling.

• Software Quality Assurance: Focuses on the impact of object orientation on testing, covering the development of comprehensive test cases, test plans, and measuring system usability and user satisfaction.

• Reusability Focus: Stresses the critical benefit of reusability, providing strategies and guidance for maximizing component-based development to accelerate project timelines and ensure robust, maintainable code.

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- Object Oriented Methodologies
- Object Oriented Analysis
- Object Oriented Design
- Software Quality

Author

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R. Ramyabharathi

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Fundamentals of Electricals & Electronics Engineering (with Lab Manual)

Author :	Susan S. Mathew, Saji T. Chacko
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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 is 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:

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

. 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.

. Book provides lots of vital facts, concepts, principles and other interesting information.

. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

. Student and teacher centric course materials included in book in balanced manner.

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

. 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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- Overview of Analog Circuits.
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- Reference for Further Learning
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- Index

Author

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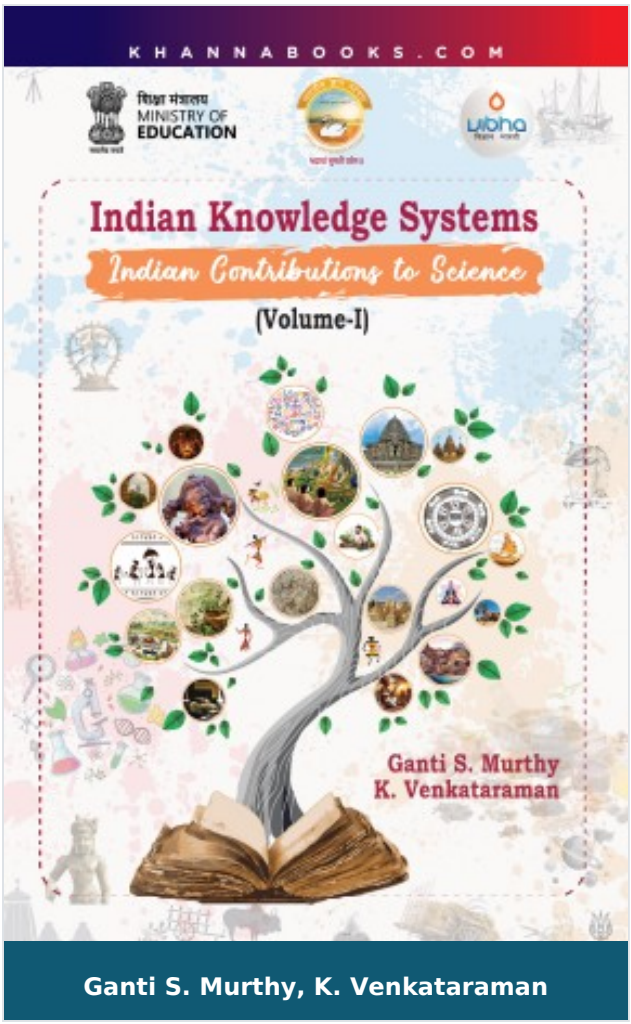

Ganti S. Murthy, K. Venkataraman

Indian Knowledge Systems (Indian Contributions to Science), Volume-I,

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Product Description

Indian Knowledge Systems (Indian Contributions to Science), Volume-I,

Indian Knowledge system (Volume-1): Indian Contribution to Science offers a profound journey into the intellectual heritage of India, presenting its timeless knowledge not as a historical artefact, but as vibrant and relevant resource for the contemporary modern world. This volume masterfully bridges the ancient and the contemporary, revealing how India’s holistic and interdisciplinary traditions – from astronomy and mathematics to chemistry medicine, ecology and agriculture—provide deep insights into the globally recognized academic and research fields of fundamental and applied sciences and technology. Meticulously researched and thoughtfully complied, this book is and essential read for students, educators, and anyone curious to discover the depth and sophistication of the Bhartiya Jnana Parampara also referred to as Indian Knowledge Systems (IKS).

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- Indian Astronomical Instruments (Yantras)
- A Glimpse of Indian Mathematics
- A Glimpse of Indian Chemistry (Rasayanasastra)
- Ayurveda: The Holistic Science of Well-Being
- Traditional Medicinal Plants
- Indian Traditional Agriculture
- About The IKS Division

Author

Ganti S. Murthy

Prof. Ganti S. Murthy is a professor of Biosciences and Biomedical Engineering at the Indian Institute of Technology Indore. He serves as the National Coordinator for Indian Knowledge Systems (IKS), an initiative of the Ministry of Education, government of India, and is the founding Head of the center for Indian Scientific Knowledge Systems at IIT Indore. With a Ph.D. in Agricultural and Biological Engineering from the University of Illinois at Urban-Campaign, and prior tenure as a professor at Oregon State University,

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Professor Murthy brings a distinguished international research background to the study of traditional Indian agronomy. His scholarly work is focused on sustainable bioprocessing and the analysis of engineered systems, with a particular interest in the resilience of agro-ecological systems. He has played a pivotal role in numerous national committees, including those under the NCERT and UGC, aimed at incorporation IKS into educational curricula and policy. His research group is dedicated to developing sustainable solutions that are technically feasible, economically viable, and environmentally conscious.

K. Venkataraman

Prof. Ganti S. Murthy is a professor of Biosciences and Biomedical Engineering at the Indian Institute of Technology Indore. He serves as the National Coordinator for Indian Knowledge Systems (IKS), an initiative of the Ministry of Education, government of India, and is the founding Head of the center for Indian Scientific Knowledge Systems at IIT Indore. With a Ph.D. in Agricultural and Biological Engineering from the University of Illinois at Urban-Campaign, and prior tenure as a professor at Oregon State University, Professor Murthy brings a distinguished international research background to the study of traditional Indian agronomy. His scholarly work is focused on sustainable bioprocessing and the analysis of engineered systems, with a particular interest in the resilience of agro-ecological systems. He has played a pivotal role in numerous national committees, including those under the NCERT and UGC, aimed at incorporation IKS into educational curricula and policy. His research group is dedicated to developing sustainable solutions that are technically feasible, economically viable, and environmentally conscious.

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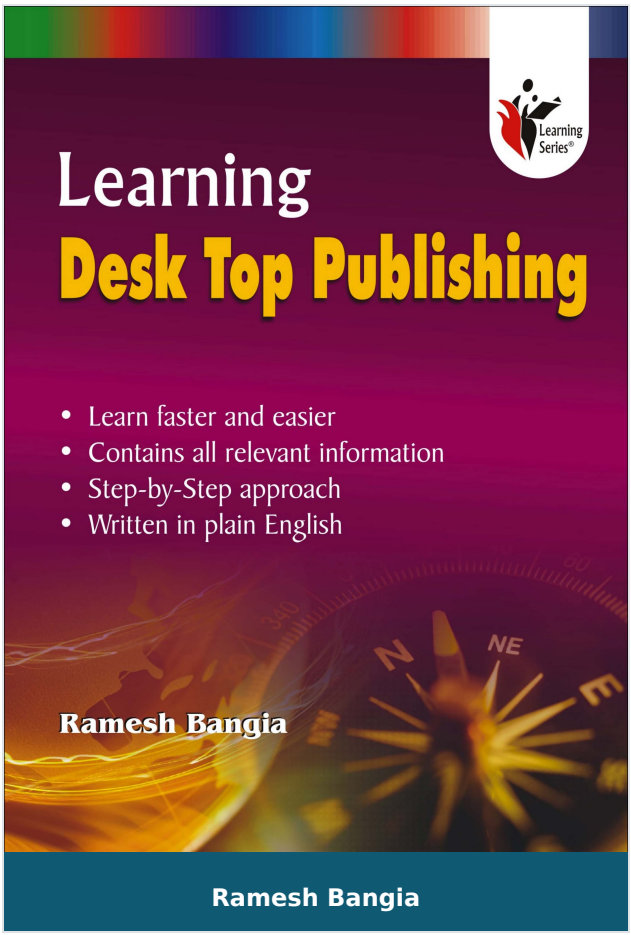

Learning Desk Top Publishing

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- Introduction to Illustrator CS 5
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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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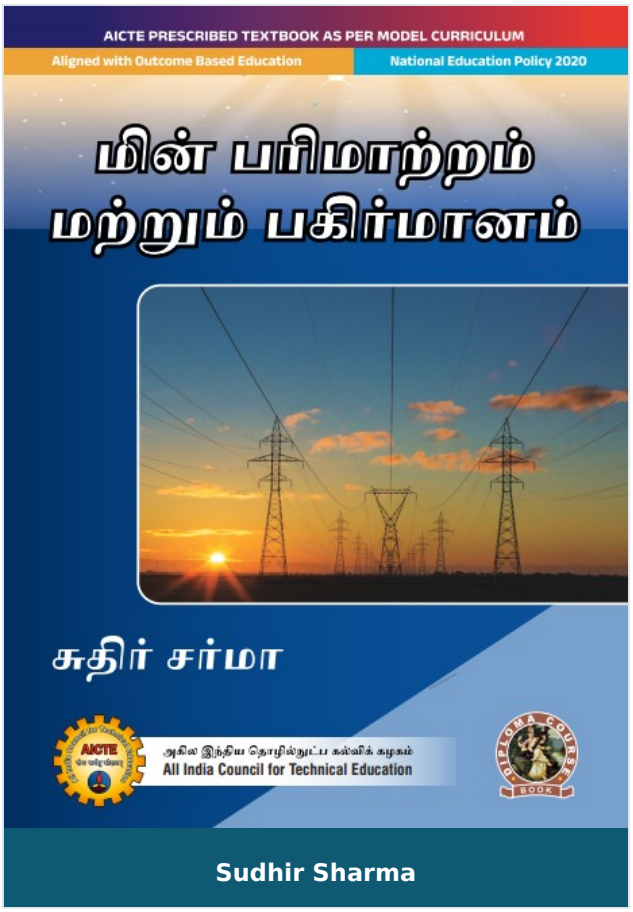

Electric Power Transmission and Distribution

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Author

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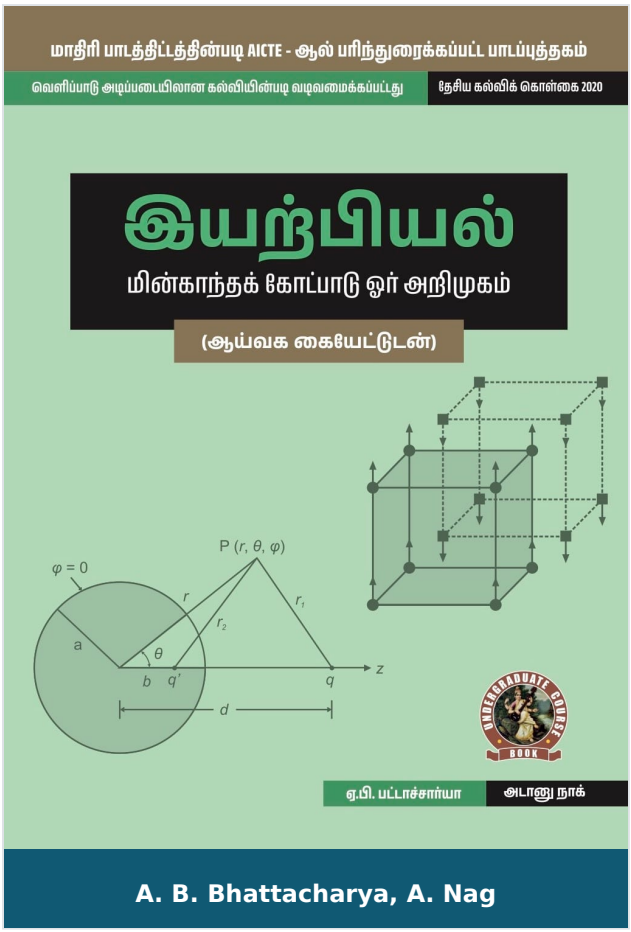

Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

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Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

Some Salient Features of the Book:

€1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.

3. Some essential information for the users under the heading “know More” for clarifying some basic

4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

€5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

A. Nag

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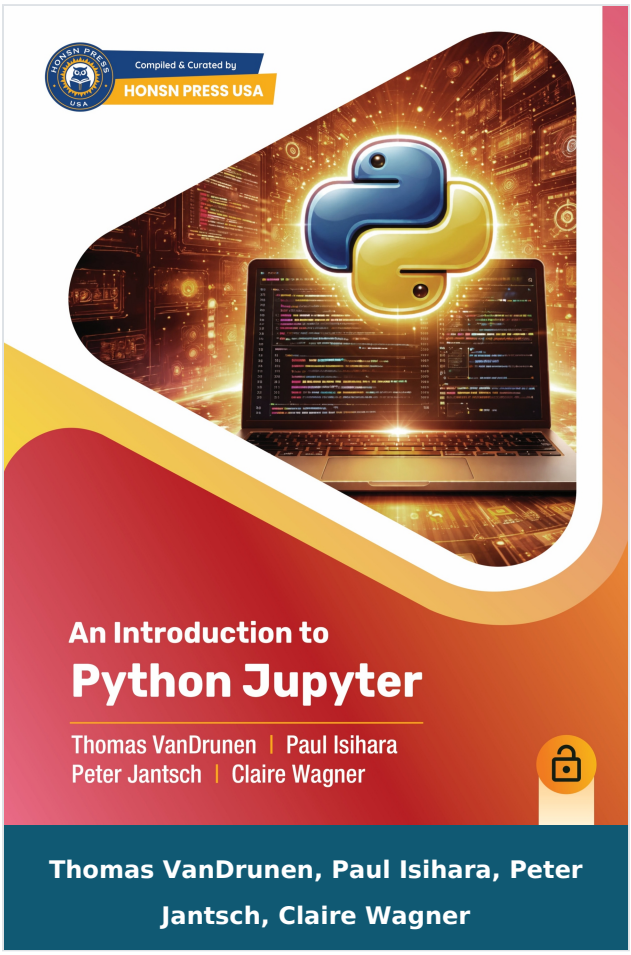

An Introduction to Python Jupyter (HONSN PRESS USA)

Author :	Thomas VanDrunen, Paul Isihara, Peter Jantsch, Claire Wagner
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Condition Type :	New
Country Origin :	India

Product Description

An Introduction to Python Jupyter Notebooks for College Math Teachers” is a comprehensive and evolving classroom resource designed to bridge the gap between theoretical collegiate mathematics and practical computational application. This text serves as an essential guide for college math teachers and their students seeking to seamlessly integrate the power of Python and Jupyter Notebooks (JNBs) into their curriculum. Unlike traditional textbooks, this entire work is presented in the form of modular Jupyter Notebooks, with each section structured for interactive engagement. This format allows for the direct input and execution of Python code alongside explanatory text, charts, and multimedia resources, making mathematical concepts immediately demonstrable and reproducible.

The book’s core theme is to enrich and enliven the study of mathematics using this cutting-edge tool. It offers immense practical value by covering a wide range of collegiate mathematics, from foundational Python programming and Exploratory Data Analysis (EDA) to advanced topics in Calculus, Linear Algebra, Statistical Inference, Differential Equations, and Complex Variables. Crucially, it connects these abstract concepts to complex real-world societal applications, such as modeling disease spread (COVID-19), analyzing urban data, and groundwater flow. Each chapter is designed to be read independently and includes dedicated JNB labs with solutions, providing a flexible framework for experienced educators to modify and tailor content to their specific courses, ultimately serving as a useful starting point to harness computational power for mathematical education.

Salient Features

- Interactive Learning Format: The entire book is written as modular Jupyter Notebooks, allowing for immediate, interactive execution of code alongside

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explanatory content, which is ideal for classroom use.

- Comprehensive Curricula Integration: The content seamlessly integrates Python programming with core college mathematics, including Calculus, Linear Algebra, Probability, and Statistical Inference for multiple course levels.
- Foundational Coding Guide: Provides a detailed Python Programming Guide, introducing essential concepts like data types, control flow, functions, and working with libraries such as NumPy and Pandas.
- Applied Data Science: Dedicated chapters on Exploratory Data Analysis (EDA) and Advanced Data Analysis provide hands-on experience in real-world data investigation and text classification using Python.
- Societal Modeling Applications: Features extensive application-based chapters, such as using Differential Equations to model public health issues (e.g., COVID-19) and Complex Variables for groundwater analysis.
- Practical Lab Exercises: Every chapter includes a dedicated Jupyter Notebook Lab and corresponding solutions, offering practical exercises that teachers can customize and students can use for independent practice.
- Optimization & Systems: Explores modern quantitative techniques like Linear Algebra for Optimization, K-means Clustering, and introduces the fundamental concepts of Complex Systems and Statistical Physics.

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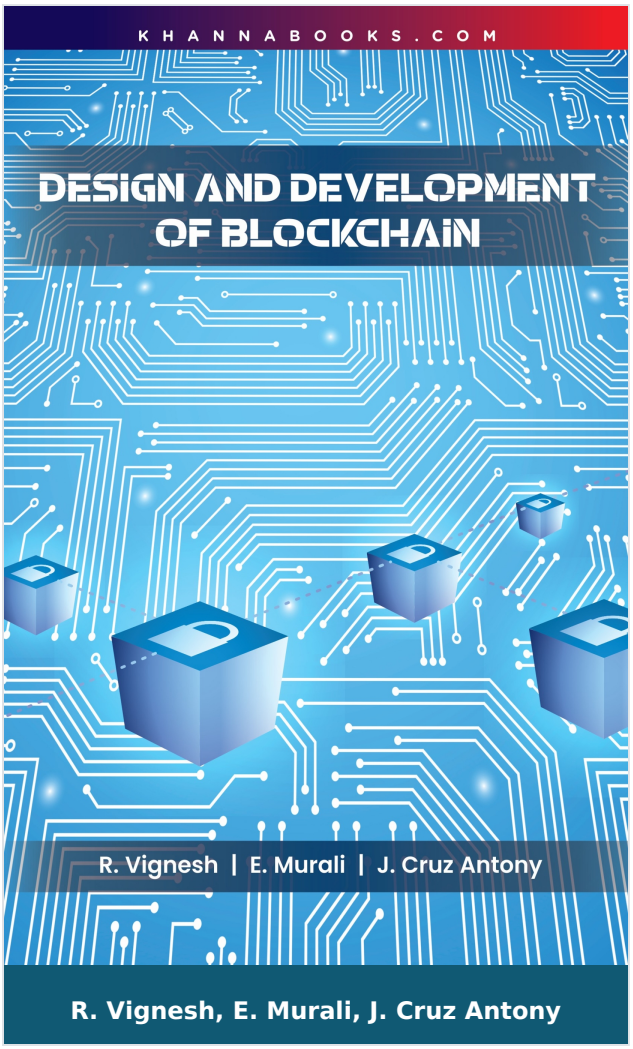

Design and Development of Blockchain

Author :	R. Vignesh, E. Murali, J. Cruz Antony
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Product Description

"Design and Development of Blockchain" offers a comprehensive and practical guide to understanding the fundamentals and applications of blockchain technology. The book bridges the gap between theoretical concepts and hands-on implementation by providing detailed coverage of Distributed Ledger Technology (DLT), consensus mechanisms such as Proof-of-Work (PoW) and Proof-of-Stake (PoS), and the principles of cryptoeconomics. Discussions are grounded in real-world blockchain platforms, including Bitcoin and Ethereum.

The primary objective of the book is to equip readers with both conceptual knowledge and practical skills needed to design, implement, and innovate blockchain solutions. It explains decentralization in depth, covering decentralized computing, storage, and communication systems. The text also explores Smart Contract and Decentralized Application (DApp) development while addressing important industry challenges such as scalability, energy efficiency, and security. Additionally, it examines blockchain integration with Artificial Intelligence (AI), Internet of Things (IoT), and Cloud Computing.

This book serves as a valuable resource for students, researchers, developers, and industry professionals interested in building secure, efficient, and future-ready blockchain-based systems.

Salient Features:

- • Cryptoeconomic Principles: Explores the economic incentives and cryptographic security mechanisms that resolve the Byzantine General's Problem in decentralized P2P networks.

  • Architectural Components: Details the core building blocks of a blockchain, including blocks, hashing, digital signatures, and the structural variations in Bitcoin

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and Ethereum blocks.

• Practical Consensus: Clarifies the operation, advantages, and energy trade-offs of major consensus algorithms, such as Proof-of-Work (PoW), Proof-of-Stake (PoS), and other hybrid models.

• Hands-on Chain Building: Provides a step-by-step guide to developing an independent blockchain, covering P2P network creation, Genesis Blocks, registering miners, and block storage.

• Ethereum Development: Offers practical instruction on setting up the Ethereum environment using developer tools like Ganache and Truffle Suite to create, test, and deploy functional Smart Contracts.

• Decentralization Ecosystem: Focuses on achieving full ecosystem decentralization for computation, storage, and communication, along with developing decentralized applications (DApps) and DAOs.

• Emerging Technology Integration: Delves into the intersection of blockchain with AI, IoT, and Cloud Computing, showcasing how it enhances data integrity, network security, and automation in various sectors.

• Security and Challenges: Addresses key technical and commercial hurdles, including scalability limitations, energy efficiency concerns, regulatory frameworks, and mitigating DDoS and Sybil attacks.

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- Components and Structure of Blockchain
- Decentralization Using Blockchain
- Creating an Own Blockchain
- Ethereum Wallet & Smart Contract

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Applied Chemistry (with Lab Manual)

Author :	Anju Rawlley, D. V. Saraf
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Country Origin :	India

Product Description

This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with program Outcomes.

2. Utmost care have been taken to amalgamate the philosophy of outcome based education.

3.The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.

4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.

5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause and effect relationship, systematic, scientific & logical thinking , ability to observe, analyse and interpret.

6. To meet the requirement of outcome based education (OBE) and outcome based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.

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7. Sample QR codes have been provided in each units on some topics/sub topics for supplementary reading and reinforcing the learning.

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- Water
- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

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