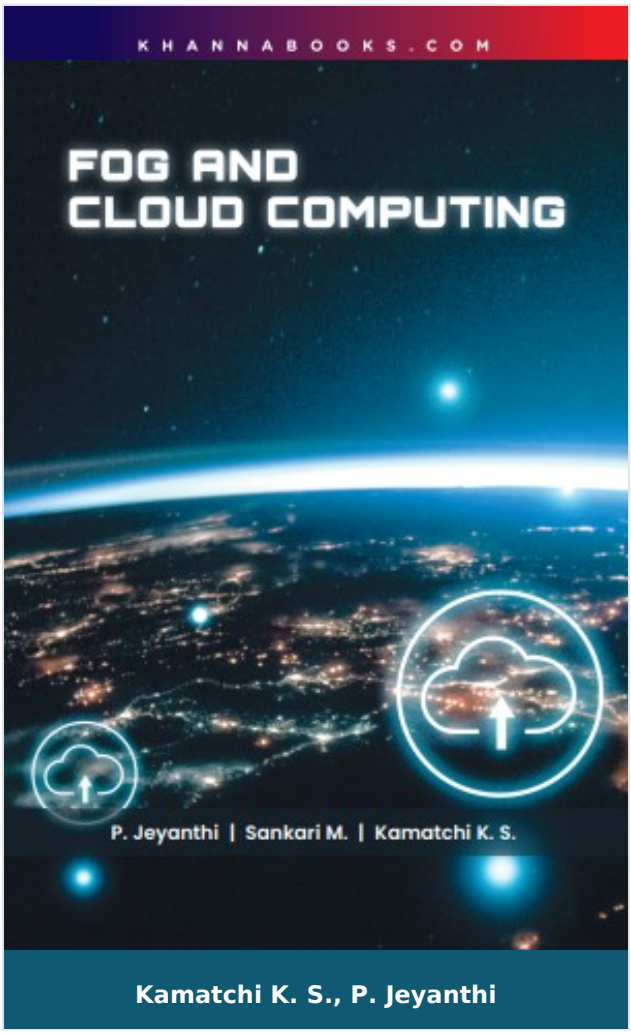

Kamatchi K. S., P. Jeyanthi

Fog and Cloud Computing

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Product Description

Fog and Cloud Computing

This book serves as a comprehensive and essential guide to mastering the modern landscape of cloud and fog computing, two fundamental technologies reshaping the digital era. The core purpose of this text is to provide a robust understanding of Cloud Computing, exploring its history, characteristics, architectural framework, and the key benefits of virtualization. It thoroughly details the major service models—Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)—and analyzes the deployment models (Public, Private, and Hybrid Cloud) used by global players like Amazon, Microsoft, and IBM.

Crucially, the book extends this foundation into the emerging field of Fog Computing. Fog computing is presented as an indispensable, decentralized architectural layer that addresses the challenges of high latency and network congestion caused by the massive scale of Internet of Things (IoT) devices on traditional, centralized cloud systems. By covering cloud management, security strategies, and the transition to the edge network, this resource aims to bridge the gap between theoretical concepts and their practical, real-world applications. The target audience includes students, IT professionals, researchers, and technology enthusiasts seeking to leverage cloud infrastructure for innovation, digital transformation, and professional growth.

Salient Features:

- **Core Architectural Framework**: Provides a clear overview of cloud computing history, fundamental characteristics (e.g., scalability, multi-sharing), and the architectural components that enable robust cloud services.
- **Essential Service Models:** Dedicated coverage of the foundational service paradigms: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and

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Software as a Service (SaaS), explaining their structure and real-world utility.

- **In-Depth Virtualization**: Details the need for and types of virtualization (hardware, OS), including deep dives into essential hypervisors like Xen, KVM, and Hyper V, and open-source cloud platforms like Eucalyptus.
- **Cloud Security & Governance**: Addresses critical challenges of cloud data management, data center tiers, and essential security protocols like multi-factor authentication, data privacy, and strategies for avoiding vendor lock-in.
- **Industry Landscape Analysis**: Analyzes the competitive landscape by profiling major cloud players (e.g., AWS, Microsoft, IBM) and detailing the advantages and disadvantages of Public, Private, and Hybrid Cloud deployment models.
- **Fog & Edge Integration**: Introduces Fog Computing as an extension of the cloud, detailing its unique architecture, benefits (low latency), and comparing it structurally and functionally to the traditional cloud model.
- **Real-World Fog Applications**: Focuses on the practical utility of Fog Computing in critical modern fields like Smart Cities, Smart Grids, and enabling real-time analytics for high-volume data from Self-driven Cars.
- **Simulation & Testing Tools**: Features an introduction to the role and architecture of Cloud Simulator (CloudSim) for evaluating a nd testing cloud applications before real-world deployment.

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- Management in Cloud Computing and Security
- Fog Computing

Author

Kamatchi K. S.

P. Jeyanthi, Sankari M., Kamatchi K. S.

P. Jeyanthi

P. Jeyanthi, Sankari M., Kamatchi K. S.

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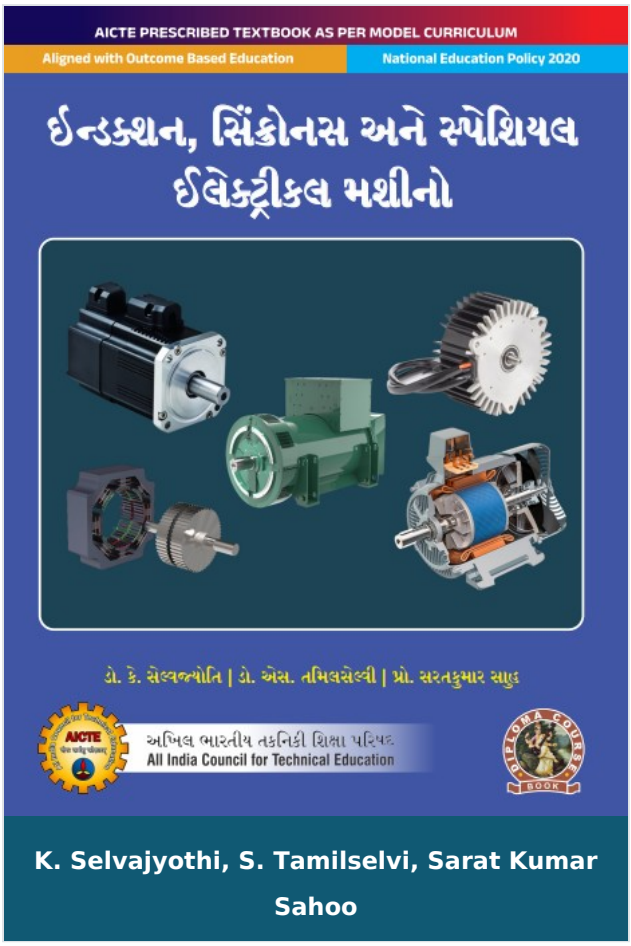

Induction, Synchronous, and Special Electrical Machines

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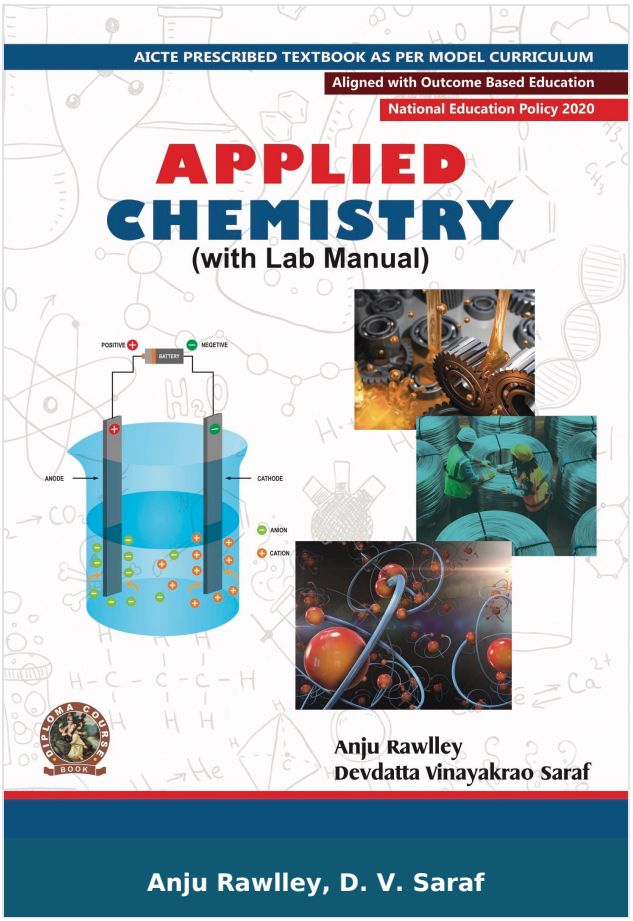

Applied Chemistry (with Lab Manual)

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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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- Guidelines for students
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- Water
- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakarao Saraf

D. V. Saraf

D. V. Saraf </p

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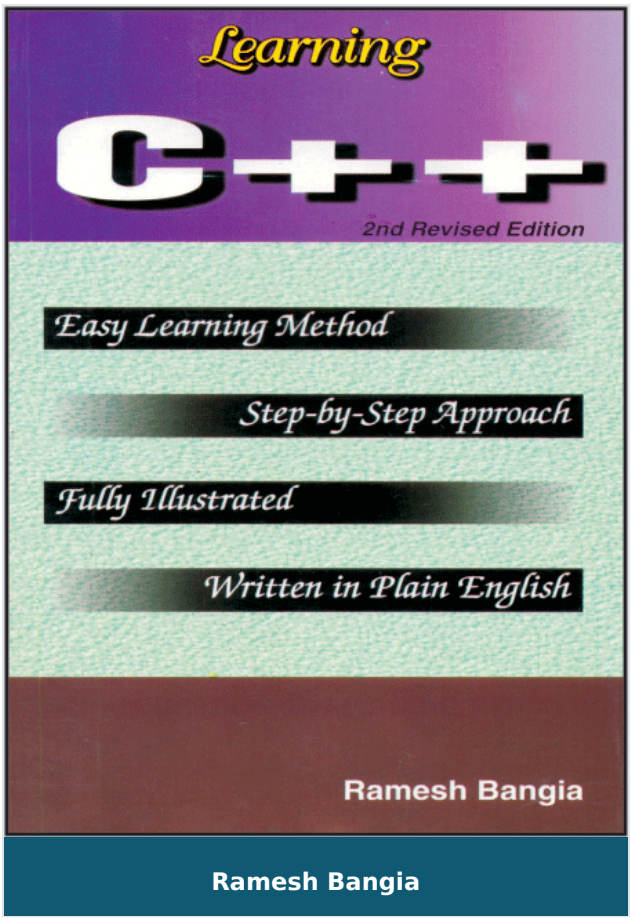

Ramesh Bangia

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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- Questions

Author

Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the

publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.



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 Analysis
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- Software Quality

Author

K. Punitha

K. Punitha

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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Author

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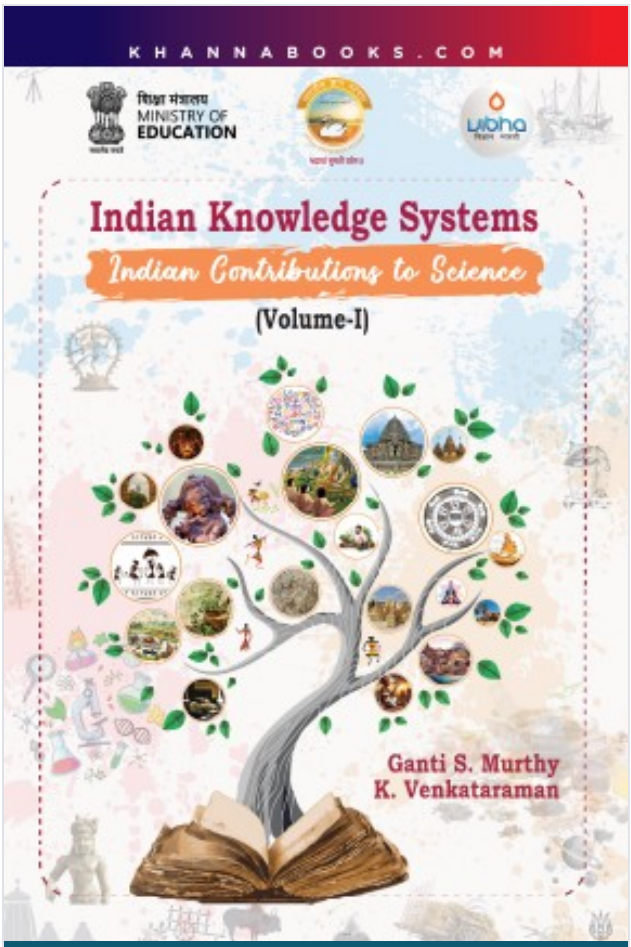

Ganti S. Murthy, K. Venkataraman

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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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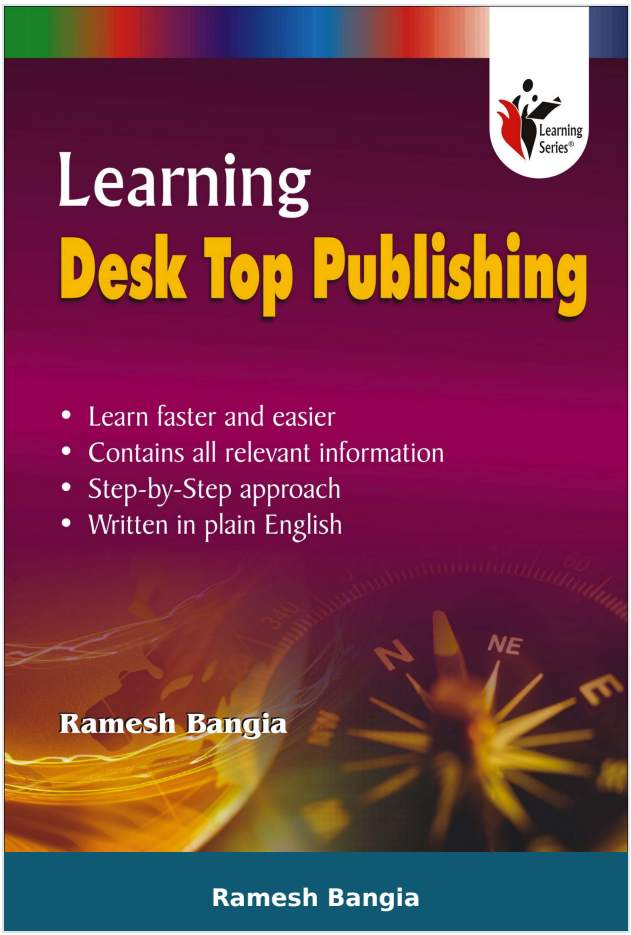

Learning Desk Top Publishing

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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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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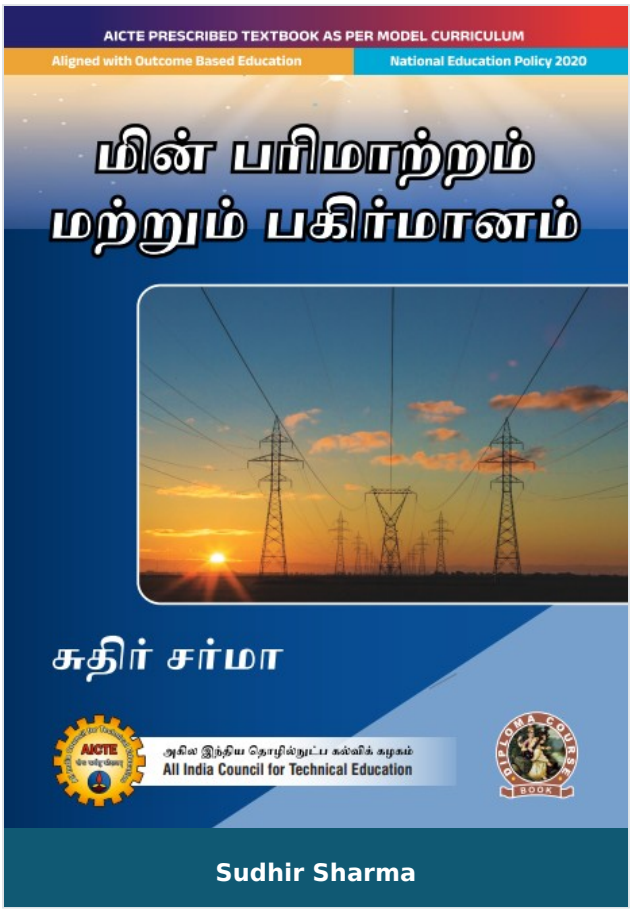

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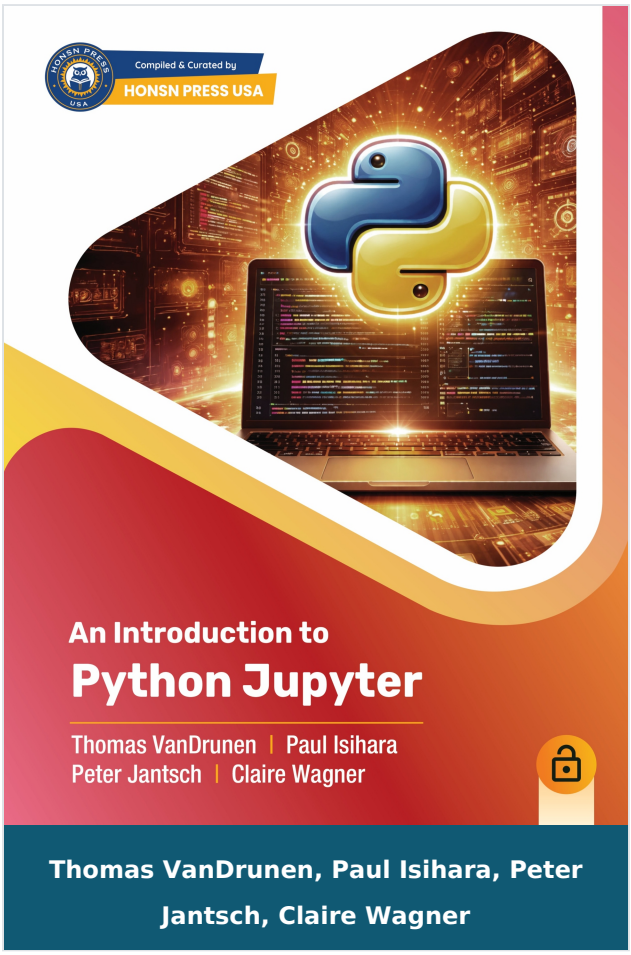

An Introduction to Python Jupyter (HONSN PRESS USA)

Author :	Thomas VanDrunen, Paul Isihara, Peter Jantsch, Claire Wagner
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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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