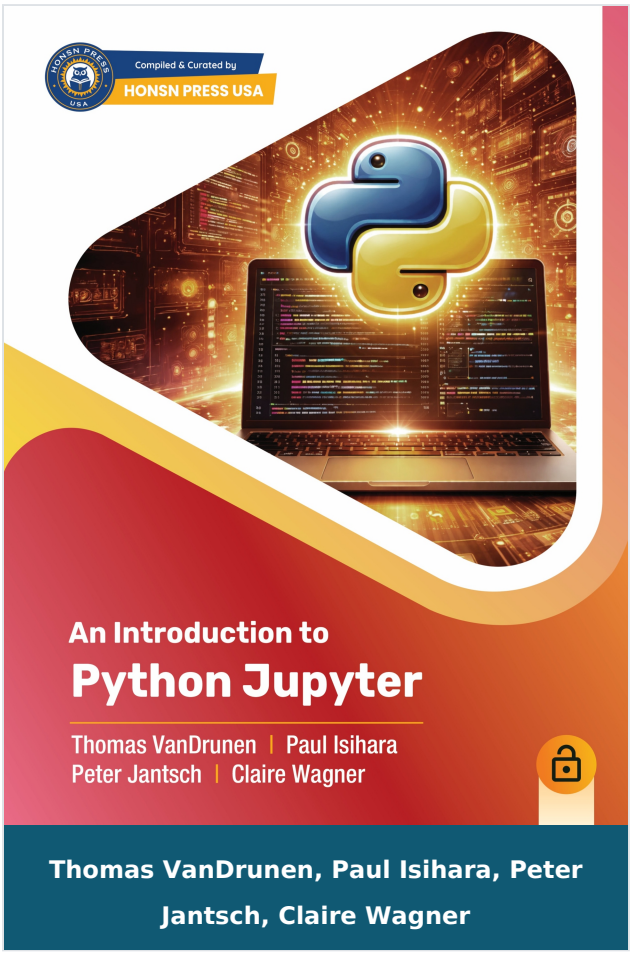


An Introduction to Python Jupyter (HONSN PRESS USA)

Author :	Thomas VanDrunen, Paul Isihara, Peter Jantsch, Claire Wagner
ISBN 13 :	978-93-74546-65-9
ISBN 10 :	93-74546-65-5
E-ISBN 13 :	978-93-74546-65-9
Edition :	First
Pages :	1200
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 2,450.00
Categories :	New Arrivals, Emerging Technologies, Bookstore, Licensed Books
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

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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Author

Thomas VanDrunen

Thomas VanDrunen

Paul Isihara

Paul Isihara

Peter Jantsch

Peter Jantsch

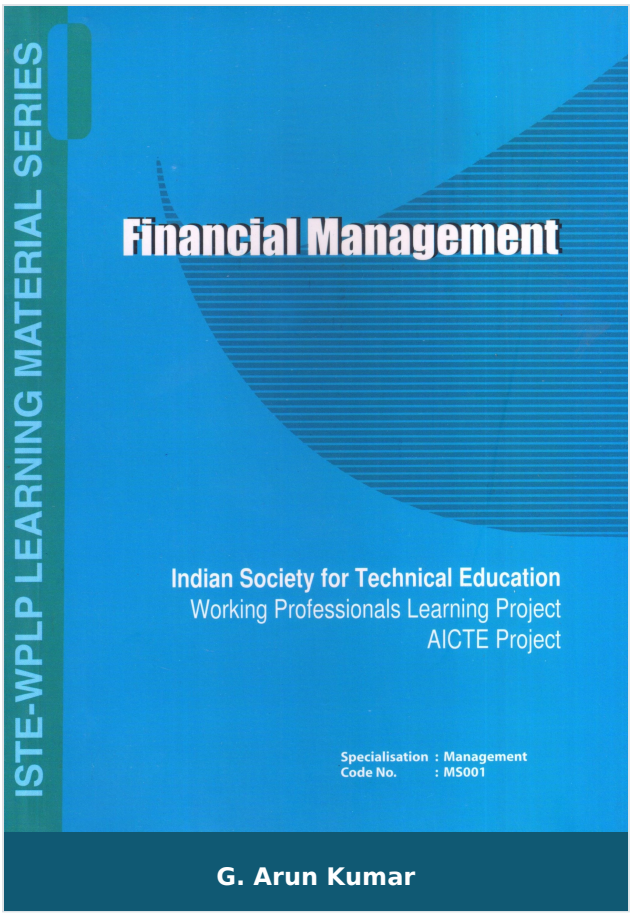
Claire Wagner

Claire Wagner

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Financial Management

Author :	G. Arun Kumar
ISBN 13 :	978-93-55387-34-9
ISBN 10 :	93-55387-34-2
E-ISBN 13 :	978-93-55387-34-9
Edition :	1
Pages :	180
Type of book :	Physical
Year :	2009
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Management Books, Bookstore, ISTE Series
Condition Type :	New
Country Origin :	India

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Product Description

The trend of current day Financial Management is to emphasized on overall managerial implication of a decision made than the decision making process itself. Through it is occasionally useful to put under a scanner the entire process of decision making. the managers are better advised to focus on the implications. Such is the focus of this reading material on Financial Management.

This is a concise form of basic text in the area of Financial Management and assumes that, the participant has as basic level of knowledge in accounting and the financial markets. This reading material will accomplished the objective of both a basic addition to a financial management theory. The instructor who chooses to discuss the basic financial management theory will find this reading material especially appealing.

Through this material is more of a miniature form of a financial management text book in provides clarity, in terms of various basic theories and aspects for a person new to tis arena. The entire material is divided into three modules. In the first module, the author introduces the subject of financial management and also discusses the time value of money concepts.

In the second part of this material, the various characteristics of risk viz. systematic and unsystematic risk and their measurement is discussed. In addition, the various return models are also discussed. The basic portfolio selection and measurement of portfolio risk and return along with cost of equity are discussed in this module. The third module focuses on capital structure and divided policy. Various types of markets efficiency and their implications give the reader a sufficient idea about the markets. In this module the debt markets and the market signaling aspects are also discussed.

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Table Of Contents

- FOREWORD
- PREFACE
- Module I: Introduction & Time Value of Mony
- Module II: Risk Return & Cost of Capital
- Module III: Capital Structure & Dividend Policy
- Reference

Author

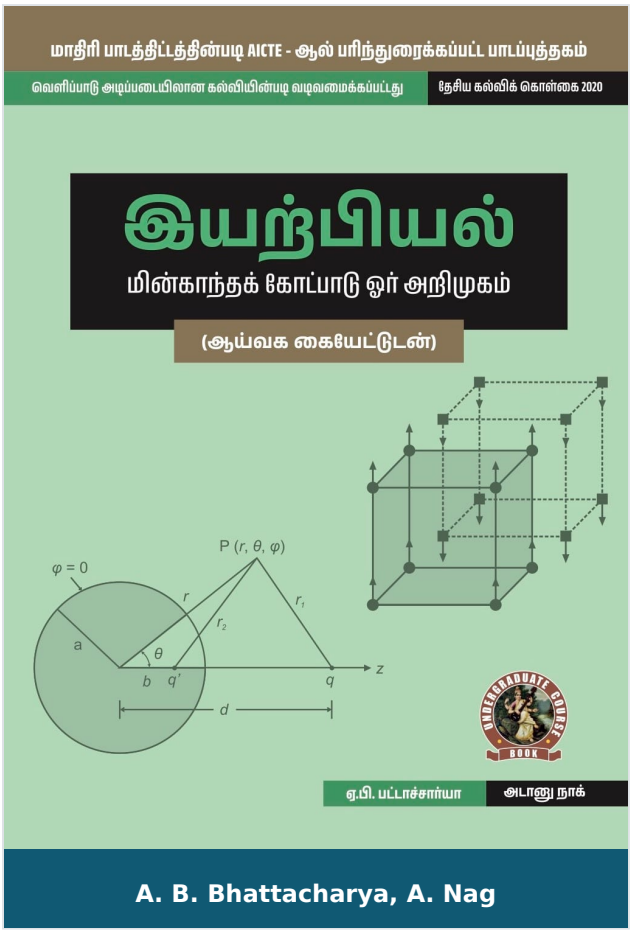
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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-91505-75-2
ISBN 10 :	93-91505-75-9
E-ISBN 13 :	978-93-91505-75-2
Edition :	First
Pages :	344
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	AICTE Prescribed Textbooks, Tamil Books, Bookstore, Ebooks
Condition Type :	New
Country Origin :	India

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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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teacher
- Guidelines for Students
- Electrostatics in Vacuum
- Electrostatics in Linear Dielectric Medium
- Magnetostatics
- Magnetostatics in Linear Dielectric Medium
- Faraday’s Law
- Maxwell’s Equations
- Electromagnetic Waves
- Table of Physical Constants
- Appendices
- Annexures
- References for Further learning
- CO and PO attainment Table
- Index

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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.

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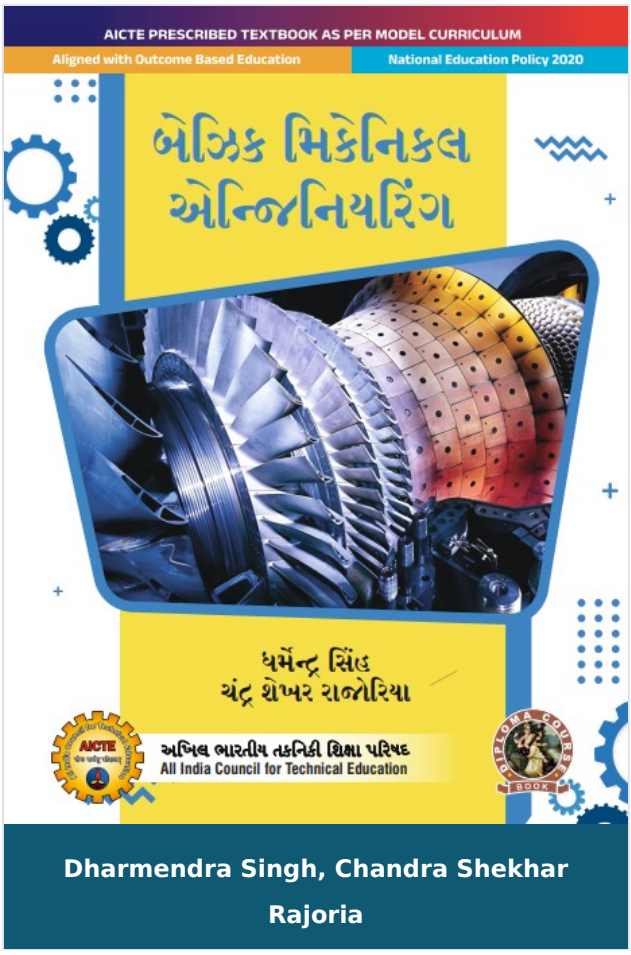
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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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Basic Mechanical Engineering

Author :	Dharmendra Singh, Chandra Shekhar Rajoria
ISBN 13 :	978-93-55384-04-1
ISBN 10 :	93-55384-04-1
E-ISBN 13 :	978-93-55384-04-1
Edition :	First Reprint
Pages :	456
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 698.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Bookstore
Condition Type :	New
Country Origin :	India

Product Description

Basic Mechanical Engineering

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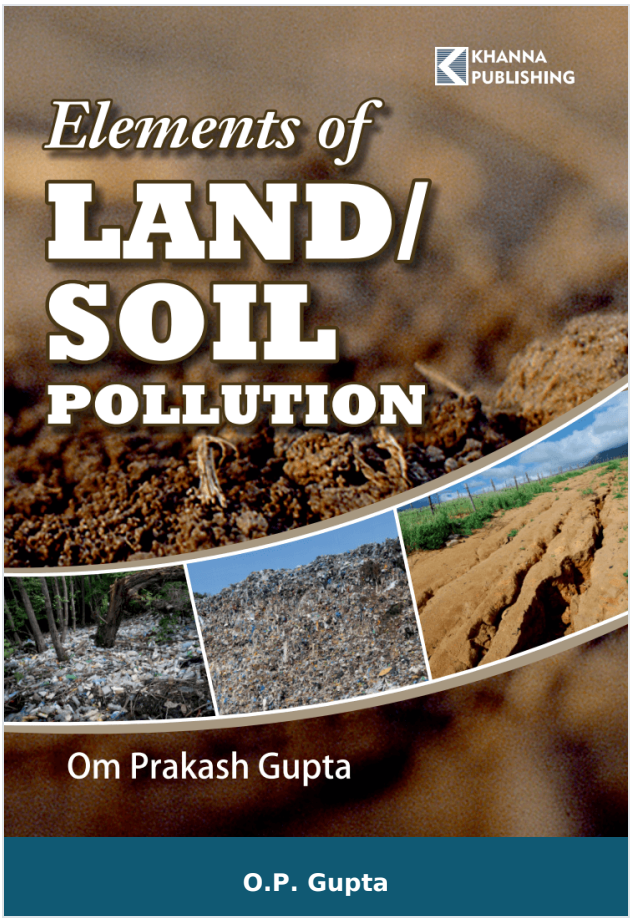
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Elements of Land/Soil Pollution

Author :	O.P. Gupta
ISBN 13 :	978-93-82609-73-5
ISBN 10 :	93-82609-73-3
E-ISBN 13 :	978-93-82609-73-5
Edition :	First
Pages :	208
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
Categories :	Civil Engineering, Environmental Engineering, Bookstore
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students.Up to date statistics and glossary of terms related to the subject have been included.

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Table Of Contents

- Chapter-1. All about Soil—Its Formation, Types, Components & Properties
- Chapter-2. Introduction to Soil Pollution
- Chapter-3. Causes, Types, & Sources of Soil Pollution
- Chapter-4. Effects of Land/Soil Pollution
- Chapter-5. Prevention & Control of Land/Soil Pollution
- Chapter-6. Short Questions & Answers on Soil Pollution
- Chapter-7. Multiple Choice Questions & Answers
- Chapter-8. Glossary of Terms Related to Soil Pollution

Author

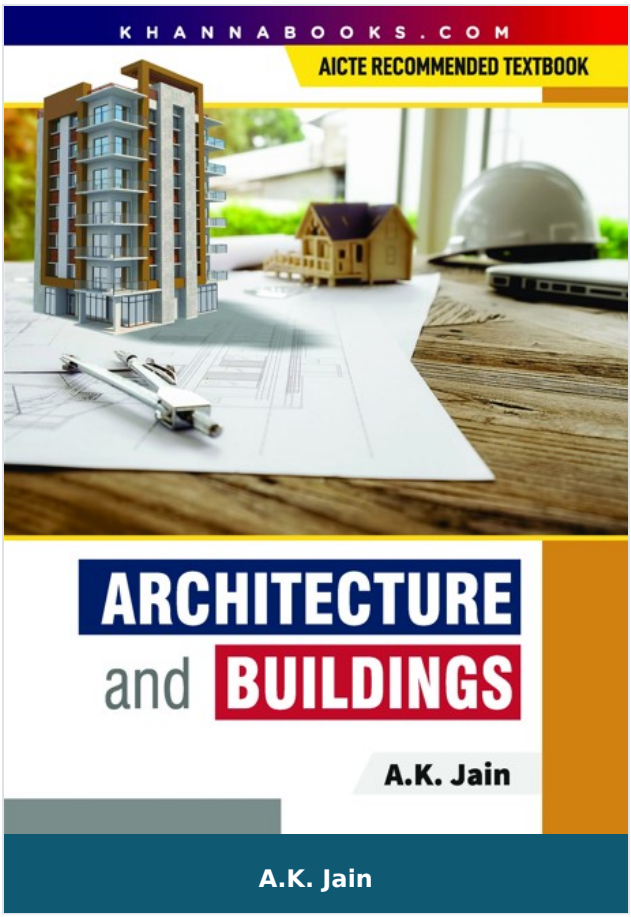
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Architecture and Buildings

Author :	A.K. Jain
ISBN 13 :	978-93-86173-82-9
ISBN 10 :	93-86173-82-4
E-ISBN 13 :	978-93-86173-82-9
Edition :	First
Pages :	420
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Architecture Engineering, University Recommended, Bookstore
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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Product Description

ARCHITECHTURE and BUILDINGS: An architect is defined as master builder, one who design buildings and superintends their erection, and the architecture as the art and science of the buildings. Architecture is one of the few professions which strike a balance between technical, artistic, practical, economic and social considerations.

Every building is a part of ecological system and has a footprint It means taking a wide-angle view of the architecture in the context of urbanism, ecology and environment, including, bio-diversity and natural resources, water and energy. As such, architecture is changing from functional to organizational, from architectonic to urbanism and from building' provides a comprehensive and narrative on history of architecture, Indian architecture, vaastu, the basic of design, green building, building resources and technology, planning and design .

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Table Of Contents

- The Basics of Architectural Design
- Evolution of Architecture In India
- History of Architecture and Human Settlements
- Vastu In Modern Context
- Translating Architectural Theory Into Design
- Green Building
- Building Design for Climatic and Thermal Comfort
- Sustainable and Resilient Habitat
- Building Resources and Technology
- Building and Planning Codes
- Anthropometry and Ergonomic
- Barrier Free Architecture
- Bibliography

Author

A.K. Jain

A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban

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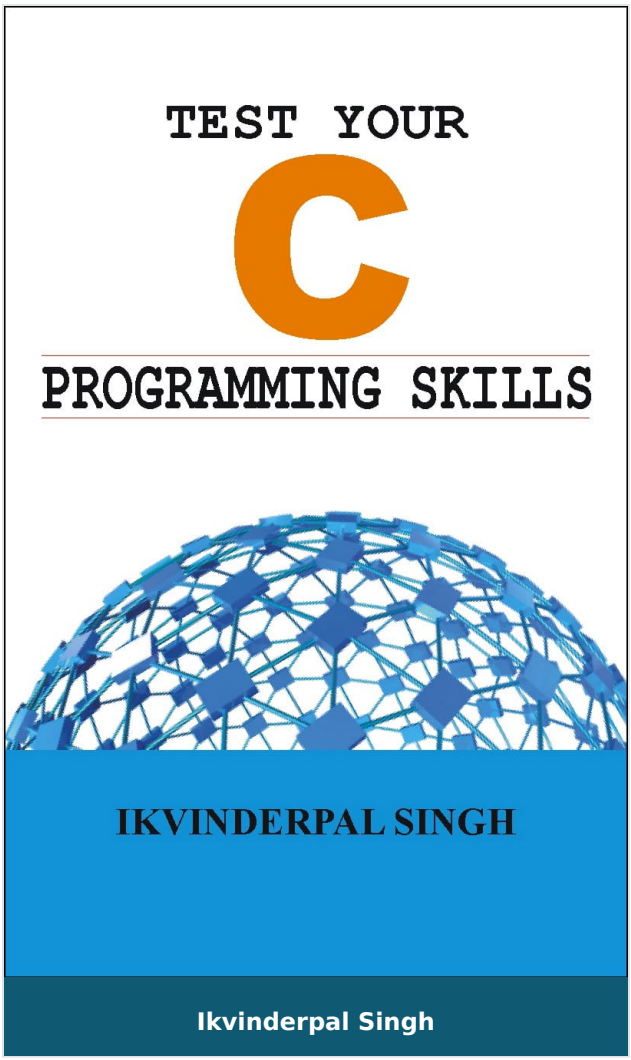
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Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development hourured him with IBC Lifetime Achievement Award (2016).

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Test Your C Programming Skills

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-80016-25-2
ISBN 10 :	93-80016-25-5
E-ISBN 13 :	978-93-80016-25-2
Edition :	1
Pages :	748
Type of book :	Physical
Year :	2011
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	Objective Type Books, Bookstore
Condition Type :	New
Country Origin :	India

Product Description

This book will teach you how to explore the immense potential of C, with lucid explanations to elusive solutions. Many of the Degrees or diplomas or certified programs being conducted in computer science and Information Technology field, it has indeed become difficult for software development companies to separate chaff from the grain. Hence many of the IT companies conduct written test in C language. Through on the face of it C language appears to be simple but it has number of features which can challenge the best in the field. This book will be an excellent guide for aspiring IT professionals and a valuable resource bank, for IT companies, to frame placement papers and technical interviews. Each chapter contains code snippets, Fill in the Blanks, True or false and Objective Type Questions.

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Table Of Contents

- Getting Started
- Operators and Expressions
- Console Input and Output
- Control Flow Statements
- Arrays
- Strings
- Functions
- Storage Classes
- Pointers
- Structure and Union
- Files
- C Preprocessor
- C Traps

Author

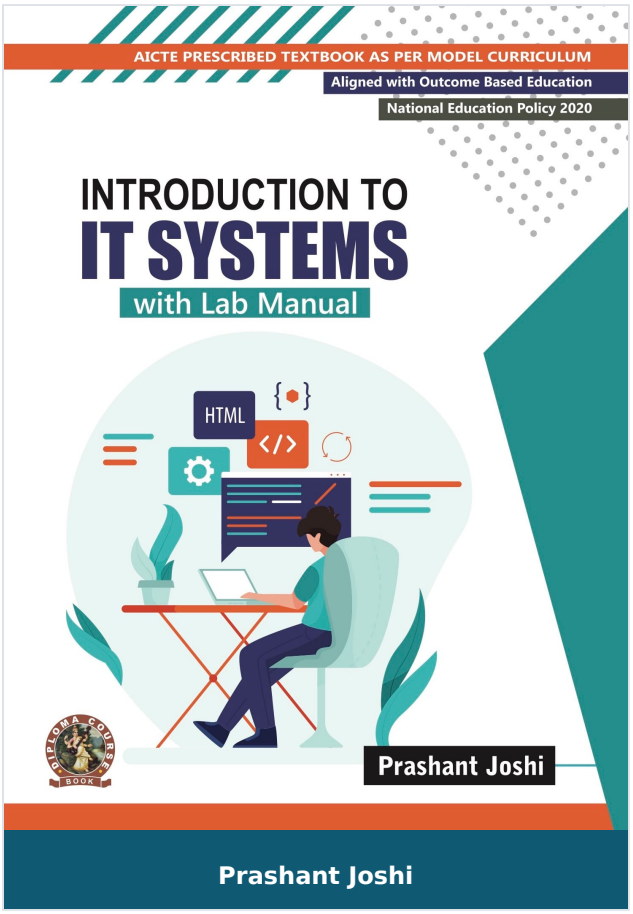
Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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Introduction to IT Systems (with Lab Manual)

Author :	Prashant Joshi
ISBN 13 :	978-93-91505-58-5
ISBN 10 :	93-91505-58-9
E-ISBN 13 :	978-93-91505-58-5
Edition :	First
Pages :	220
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Bookstore, Ebooks, Applied Sciences & Humanities
Condition Type :	New
Country Origin :	India

Product Description

“INTRODUCTION TO SYSTEMS” is a compulsory paper for the first year Diploma 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 each and lucid manner. Every unit contains a set of exercise at the end of each unit to test 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 topic. QR 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 exercise 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

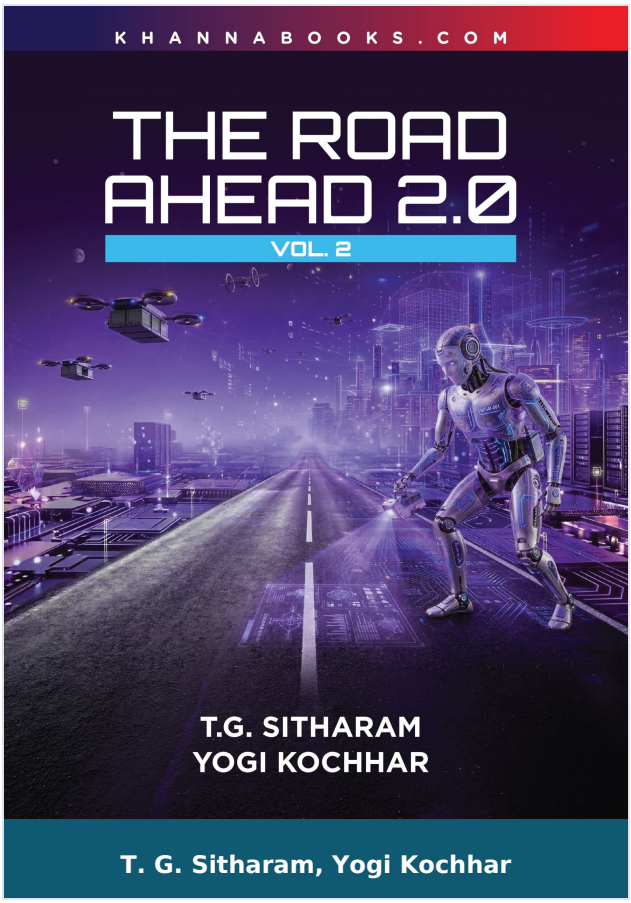
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The Road Ahead 2.0 Volume-2 (Colour Edition)

Author :	T. G. Sitharam, Yogi Kochhar
ISBN 13 :	978-93-74548-61-5
ISBN 10 :	93-74548-61-5
E-ISBN 13 :	978-93-74548-61-5
Edition :	First
Pages :	276
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 995.00
Categories :	Computer Science Engineering, New Arrivals, Emerging Technologies, Bookstore
Condition Type :	New
Country Origin :	India

Product Description

Do we own the table or the Casino?

Welcome to this Kumbh of AI.

We need to open our eyes to the issue of Data integrity and sovereignty.

In the AI-driven world, data is the new currency, yet we've handed ours over voluntarily. From Aadhaar-linked social media to our apps and emails and websites that are building trillion-dollar valuations for global companies that pay no taxes here. Data is sold in GBs. It is a commodity. Should all commodities not be taxed as they are produced or consumed. AI's raw stock is data from a billion-1 population in India.

Desmond Tutu's: When missionaries came to Africa, they had the Bible, and we had the land. They said, lets pray. We closed our eyes to pray; when we opened them, we had their Bible, they had our lands.

India's demographic dividends that must accrue here by way of mindshare in Yottabytes of data sits untaxed abroad. Why aren't we reclaiming value? OpenAI's profit motive, backed by Microsoft's $80 bn investment in one year alone highlights their grip on singularity and humanity. It is the equivalent of 160 times of our spend on the Kumbh or more than the GDP of over 100 countries.

Server farms in data centers are like vast fields tended by farmers that cultivate data, shaping human decisions and perceptions like crops. Over time, the farmers, dictate the harvest, silently steering humanity's actions and future with automated precision. We must brace for that impact as we become puppets and bionic at their hands.

If we don't control our data, we'll remain tokens on the casino table, not players owning the house. Lets honor Aryabhatta and Brahmagupta by mastering the checksum.

Its time to own the Casino and not be played by it!

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- Tourism, Entertainment, Hospitality
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- Health & Medicine
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- Life Style
- The Stories

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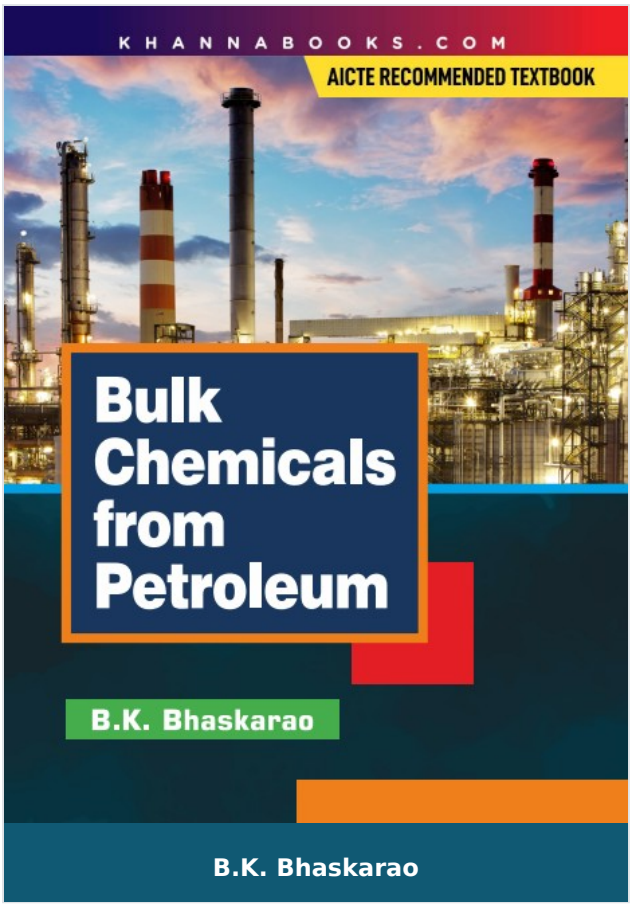
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Bulk Chemicals from Petroleum

Author :	B.K. Bhaskarao
ISBN 13 :	978-93-86173-99-7
ISBN 10 :	93-86173-99-9
E-ISBN 13 :	978-93-86173-99-7
Edition :	First
Pages :	416
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Chemical Engineering, Bookstore
Condition Type :	New
Country Origin :	India

Product Description

This book covers petrochemical industry feedstocks, chemicals derived from C1, C2, C3, C4 & higher hydrocarbon atoms, synthesis gas & chemicals and petroleum aromatics. Besides, it contains comprehensive information pertaining to polymers which include plastics, synthetic fibers & elastomers and synthetic detergents. This book will serve as as reference material for the student, teachers and practicing engineers in th field of chemical, petroleum and petrochemical engineering.

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Table Of Contents

- Chapter-1: Petrochemical Industry-Feedstocks
- Chapter-2: Chemicals from Methane
- Chapter-3: Chemicals from Ethane-Ethylene-Acetylene
- Chapter-4: Chemical from C3,C4 and Higher Carbon Atoms
- Chapter-5: Synthesis Gas and Chemicals
- Chapter-6: Polymers of Olefin
- Chapter-7: Petroleum Aromatics
- Chapter-8: Synthetic Fibers
- Chapter-9: Synthetic Rubber
- Chapter-10: Plastics
- Chapter-11: Synthetic Detergents
- Chapter-12: Petroleum Coke and Carbon Black
- Chapter-13: Pollution and Toxicity

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Programming in Python

Author :	K. Abinaya, Saraswathi
ISBN 13 :	978-93-55389-64-0
ISBN 10 :	93-55389-46-7
E-ISBN 13 :	978-93-55389-64-0
Edition :	First
Pages :	120
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 198.00
Categories :	Computer Science Engineering, New Arrivals, Bookstore, Sathyabama Series
Condition Type :	New
Country Origin :	India

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Product Description

This comprehensive textbook, The Complete Guide to Programming in Python, is a foundational resource designed to transform absolute beginners into proficient Python developers. The core theme of the book is simplicity meets versatility: Python's global popularity is rooted in its highly readable syntax and its powerful application across diverse fields like web development, data science, and automation.

The book's primary purpose is to deliver a systematic, hands-on learning experience. It begins by establishing the fundamentals—such as the easy-to-understand syntax, diverse expression types, and key data structures like Numeric, Sequence (Lists, Tuples), and Mapping (Dictionaries)—before seamlessly progressing to advanced topics. Readers will master essential control flow techniques, including conditional statements (if/elif/else, match-case) and iterative loops (for/while), and learn to structure complex code using Object-Oriented Programming (OOP) principles (Inheritance, Polymorphism). The practical value is reinforced by specialized units on handling errors through robust exception handling, interacting with the PyMongo database, and building visually appealing applications using Tkinter. The target audience includes students in computer science, newcomers to programming, and professionals from any domain who require a solid, application-focused grounding in one of the world's most demanded programming languages.

Salient Features:

• Foundational Syntax Mastery: An ideal starting point covering all of Python's core features, from its easy-to-understand syntax and diverse expression types (Arithmetic, Logical) to detailed rules for operator precedence.

• Comprehensive Data Structures: A dedicated section that thoroughly explores all built-in data types: Numeric (int, float), Sequence (list, tuple, string), Mapping (dict), and Set

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types, complete with practical code implementations.

• Control Flow and Logic: Offers full coverage of flow control mechanisms, from basic if-else and nested conditions to the modern match-case statement, ensuring the ability to write robust program logic.

• Essential Built-in Functions: Provides an extensive, tabulated reference of over 50 vital built-in functions, each accompanied by practical code snippets demonstrating its correct usage and return value.

• OOP Principles Explained: Delivers clear, practical instruction on Object-Oriented Programming, covering Inheritance, Polymorphism (Overriding, Overloading), and Data Abstraction using Python-specific examples.

• Ecosystem and Libraries: Introduces the vast Python ecosystem, detailing how to create and use custom modules and presenting key external libraries like NumPy and Pandas for data manipulation.

• GUI Application Development: Step-by-step guidance on creating rich Graphical User Interfaces (GUIs) using the standard Tkinter library, thoroughly covering layout managers and all essential widgets.

• Practical Database Integration: Hands-on instruction for connecting to and performing full CRUD (Create, Read, Update, Delete) operations on a NoSQL database, specifically using the PyMongo library for MongoDB.

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Table Of Contents

- Introduction to python
- Operating on File
- GUI Programming
- Database and Networks

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Saraswathi

Saraswathi Devi for given me the support and encouraging me to achieve goals successfully. I co-authored books on "Computer Fundamentals", Data Science with Machine Learning using R. Dr. K. L. Vasundhara, HOD & Assoc. Professor, Dept. of Mathematics, Thank my Mentor Prof. M. V. Ramana Murthy (Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, OU, Hyderabad) for his guidance, time, ideas and help. I am greatly indebted to Sri Krishna Rao (Correspondent, Stanley College of Engineering and Technology for Women, Hyderabad) for his support. It is imperative on my behalf to remember my behold Mother Late Smt. K. Varalakshmi and my Father-in-Law Late Sri. Yerasuri Gopala Krishna Murthy for their divine blessings. Recipient of "UTTAMA ADYAPIKA AWARD" 2022, " JYSTA ACH ARNA AWARD" 2024 and authored 16 papers in various National & International Journals, Co- authored books on " Engineering Mathematics-IV", "Data Science with Machine Learning using R". AICTE nominated expert for Data Analytics and having 6 Patents. Prf.

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