



Case Studies in Construction Project Management

Author : K. B. Rajoria, H. K. Srivastava

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Categories : [Civil Engineering, New Arrivals, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Case studies in this book show how project were completed because of initiatives and out-of- the -box thinking.

This book is to provide young architects and engineers insight into evolving innovates solution in dealing with complex situations that during implementation of construction projects.

Majority of cases reflect personal experience of the authors in their professional career.

Engineering profession is difficult and exciting as solutions are to be found at each & every stage of the project.

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- Yingkiyong Damroh Road Arunachal Pradesh.
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- Loni Road Flyover with Precast Prestressed Girders.
- Punjabi Bagh Flyover at Delhi.
- AIIMS and Dhaula Kuan Flyover Project at Delhi.
- Flyovers with Precast Segmental Technology on Ring Road and Outer Ring Road at Delhi.
- Flyovers with Steel Fabrication Technology on Ring Road at Delhi.
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- Extension and Strengthening of Runway at Port Blair Airport, Andaman and Nicobar Islands.
- Underpass at Madhuban Chowk on Outer Ring Road, Delhi.
- The Signature Bridge on River Yamuna.

Author

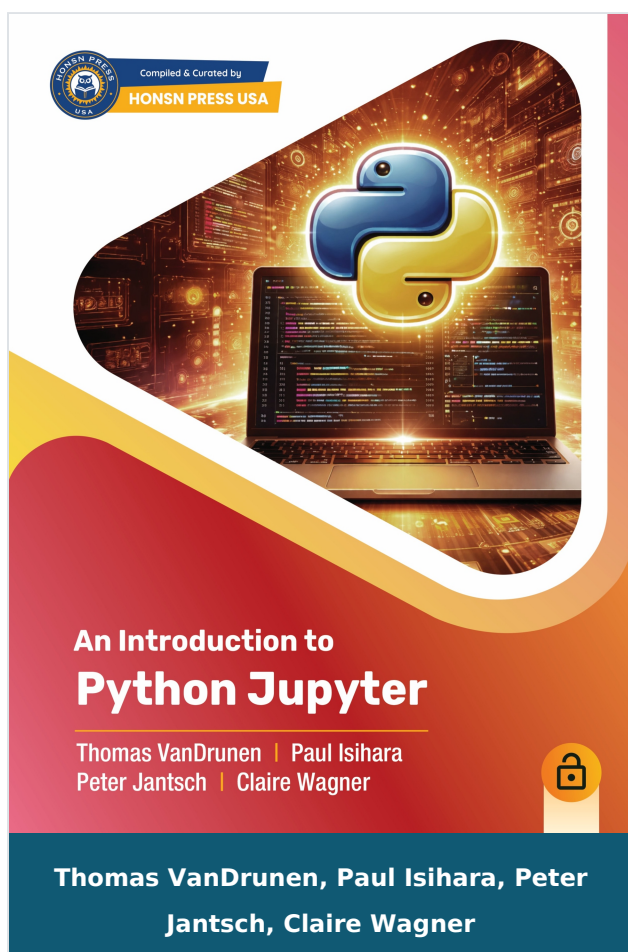
K. B. Rajoria

K. B. RAJORIA K B Rajoria did BE (Hons) in Civil Engineering from MBA Engineering College, Jodhpur in 1961 and ME (Gold Medallist) , in Soil Mechanics and Foundation Engineering from Indian Institute of Technology Roorkee in 1963. He was also a faculty member in this Institute. He joined Central PWD in 1963, and worked in different capacities in the Government including hill road project in Nepal, prestigious Parliament Secretariat Building in New Delhi, several building and hill road projects in Arunachal Pradesh, Water Research Center Project at Bagdad (Iraq), projects for Delhi Development Authority etc. He worked at the Government of Delhi where projects to his credit include Delhi College of Engineering, Hospital Projects, Delhi Secretariat Building and a number of flyover projects. He was promoted as Engineer-in- Chief Government of Delhi. He was bestowed with important honorary positions such as Presidents, Indian Buildings Congress, President, and Indian Roads Congress as also Chairman, Quality and Safety Forum, the Institution of Engineers. He was awarded Gold Medal for outstanding services in Arunachal Pradesh, Certificate of Outstanding Achievements by Govt. of Delhi and Award for 'Outstanding Engineer' by the Institution of Engineers. He has published several

technical papers in professional journals and authored books on various aspects of construction. A book titled; "ISO 9000 Practices in Construction" authored by him has been published recently.

H. K. Srivastava

H. K. SRIVASTAVA H K Srivastava did B Tech (Hons) in Civil Engineering in 1969, and Masters in Structures in 1971, both from IIT Kharagpur. He joined faculty at IIT, BHU for one year prior to joining CPWD in 1972. He worked in different capacities for more than 38 years from Assistant Executive Engineer to Additional DG, CPWD. H K Srivastava has worked in different geographical areas as well as across different organizational cultures within the country and abroad. Worked on road project in Arunachal Pradesh, East-West Highway Project Nepal, Delhi PWD, Indo Bangla Border Road Project and Rural Roads for PMGSY. He has carried out design of multi storied building at Delhi, as also bridges in Nepal and West Bengal. He experience of working for Ministry of Finance real estate investments for Income tax purposes, and as also with NBCC on projects in Iraq at Kirkuk, Mosul and Baghdad during mid-eighties. He is a member of various professional bodies. He has a number of technical papers to his credit. As an active member to Humane Resource Development Committee of IRC, he has been closely associated with the development of 'Guidelines on Skill development of Workmen in Road Sector (IRC:128-2019).



An Introduction to Python Jupyter (HONSN PRESS USA)

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

ISBN 13 : 978-93-74546-65-9

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Publisher : Khanna Publishing House

M.R.P : Rs 2,450.00

Categories : [New Arrivals, Emerging Technologies, Book Store, 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.

Author

Thomas VanDrunen

Thomas VanDrunen

Paul Isihara

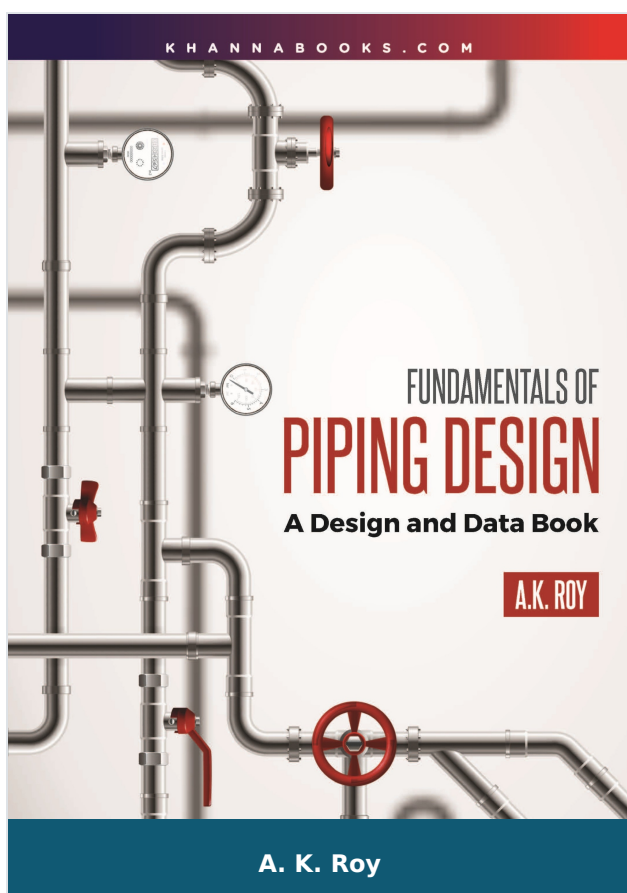
Paul Isihara

Peter Jantsch

Peter Jantsch

Claire Wagner

Claire Wagner



Fundamentals of Piping Design (A Design and Data Book)

Author :	A. K. Roy
ISBN 13 :	978-93-55387-73-8
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E-ISBN 13 :	978-93-55387-73-8
Edition :	1
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Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Mechanical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book offers a comprehensive introduction to the design of piping systems for professional engineers. It explains the fundamentals of piping design along with essential data and practical guidelines in a clear, accessible manner. Covering material selection, layout development, stress analysis, and computer-aided design, the book draws from international standards such as ASME, ASTM, IS, and BS. It balances theory with real-world application, featuring detailed illustrations and a case study using software tools, making it a valuable reference across industries like power, oil & gas, waterworks, and chemicals processing.

SALIENT FEATURES OF THE BOOK

- Provides essential design knowledge for piping systems across industries.
- Includes data from ASME, ASTM, IS, BS, and other international standards.
- Covers the complete design process: piping layout, material selection, stress analysis, and support design.
- Contains a detailed case study on pipe stress analysis using computer-based software.
- Suitable for piping, project, system, and maintenance engineers.
- Applicable to power plants, waterworks, oil and gas pipelines, and chemical industries.
- Rich in illustrations, practical examples, and ready-reference design charts.

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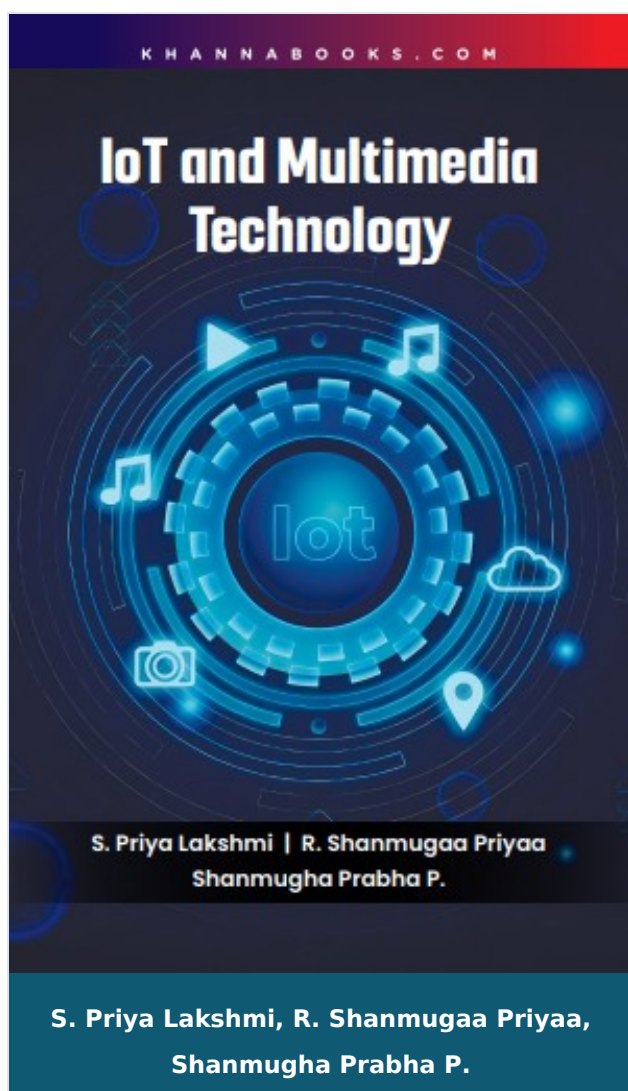
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- Annexure
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- References

Author

A. K. Roy

K. Roy (BE, M.Tech. , FIE) is a seasoned engineering professional with over 37 years of experience at Steel Authority of India Limited (SAIL). He held senior positions including General Manager in the Centre for Engineering & technology (CET), where he led design, engineering, and consultancy services in utilities and services. He also contributed

significantly as a research Engineering, and consultancy services in development Centre for Iron & Steel (RDCIS), SAIL, Shri Roy retired as general manager from CET and resides in Kolkata.



IoT and Multimedia Technology

Author : S. Priya Lakshmi, R. Shanmugaa Priyaa, Shanmugha Prabha P.

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Publisher : Khanna Publishing House

M.R.P : Rs 198.00

Categories : [New Arrivals, Book Store, Sathyabama Series](#)

Condition Type : New

Country Origin : India

Product Description

IOT and Multimedia Technology

The book IOT AND MULTIMEDIA TECHNOLOGY serves as a comprehensive and essential guide to the transformative convergence of the Internet of Things (IoT) and Multimedia Big Data (MMBD) Computing. This powerful synergy is fundamentally reshaping the digital landscape, enabling intelligent data processing, real-time analytics, and innovative applications across critical sectors such as healthcare, smart cities, and industrial automation.

The primary purpose of this text is to provide a profound understanding of the interconnected evolution and far-reaching impact of these technologies by examining both fundamental principles and state-of-the-art solutions. A core theme addresses the critical challenge of effectively managing the massive volume and velocity of multimedia data while ensuring minimal energy expenditure in resource-constrained IoT devices. Readers will delve into complex technical areas, including the architectural foundations for real-time data stream monitoring, advanced transport protocols, and the deployment of guaranteed Quality of Service (QoS) models like DiffServ and IntServ. The book maintains a structured, academic approach that skillfully balances theory with practical application, featuring numerous case studies from military surveillance to precision agriculture.

This resource is an indispensable tool for a broad target audience, including students and academics seeking advanced knowledge, technology enthusiasts, and industry professionals or researchers looking to master the multidisciplinary approaches required to navigate and contribute meaningfully to this rapidly advancing field.

Salient Features:

- **Deep Learning Analytics:** Explores Deep Learning models like CNNs and RNNs, demonstrating their efficacy for Multimedia Big Data analysis, pattern recognition, and anomaly detection in vast IoT data streams.
- **Network QoS Models:** Detailed coverage of Guaranteed Service Models such as DiffServ and IntServ, alongside QoS-aware routing and queuing techniques, crucial for reliable multimedia delivery.
- **Energy-Efficient Design:** Addresses the critical challenge of Energy Conservation in multimedia IoT, presenting solutions like energy-efficient protocols, cross-layer optimization, and energy harvesting technologies for resource-constrained devices.
- **Multimedia Transport:** In-depth analysis of transport protocols (TCP and UDP) for interactive and non-interactive applications, including techniques for jitter removal and transcoding considerations in streaming.
- **Embedded Network Evolution:** Traces the development of the Embedded Internet through WSNs, M2M Communications, and the innovative architecture of Information-Centric Networking (ICN).
- **Key Protocol Standards:** Focuses on essential hardware and session control protocols that form the backbone of advanced systems, including H.322, SIP, MGCP, RTSP, and RTP/RTCP.
- **Real-World Case Studies:** Features practical applications in Precision Agriculture, Military Surveillance, Smart Cities, and Video Conferencing, highlighting the limitless frontiers of multimedia big data in IoT.

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- Multimedia Big Data in IoT Ecosystems
- Guaranteed Service Model
- Multimedia Transport
- Evolution Embedded Internet
- Application Environment

Author

S. Priya Lakshmi

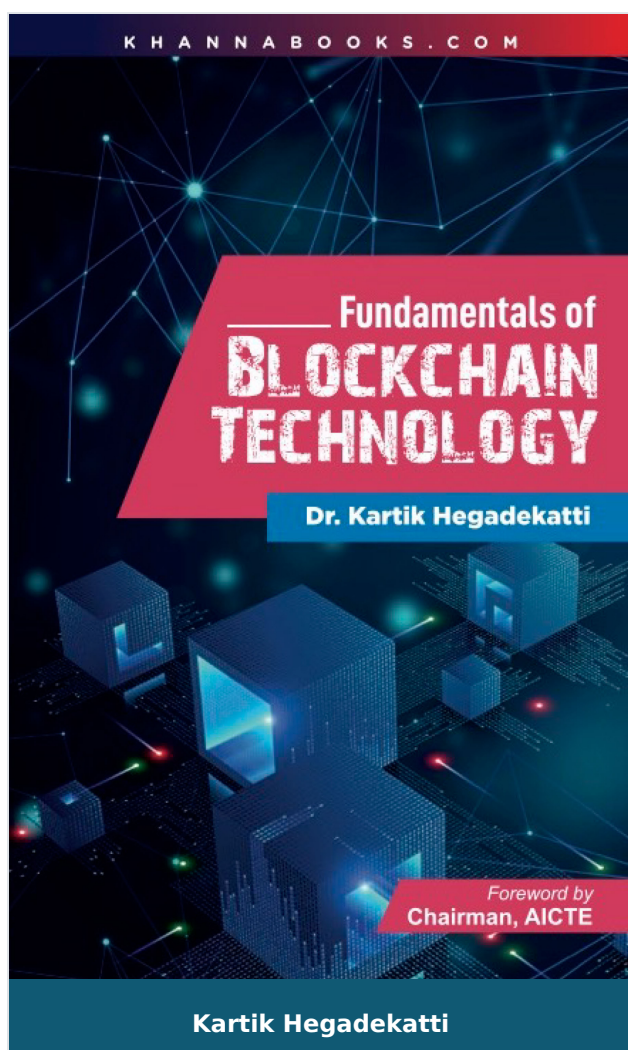
R. Shanmugaa Priyaa, S. Priya Lakshmi, Shanmugha Prabha P.

R. Shanmugaa Priyaa

R. Shanmugaa Priyaa,

Shanmugha Prabha P.

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



Fundamentals of Blockchain Technology

Author : Kartik Hegadekatti

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Publisher : Khanna Publishing House

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Categories : [New Arrivals, Emerging Technologies, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

'BLOCKCHAIN TECHNOLOGY' heralds a new social potential and is a disruptive innovation. Discovered as a basis for the cryptocurrency record keeping system, Blockchains are now used as reliable data storage systems universally.

Blockchain is a tamper-proof, distributed, and decentralized system that can validate and record digital transactions. It is transparent, safe and protects the data integrity.

This fantastic technology is used in multiple fields like energy, education, healthcare, finance, voting, land records, intellectual property rights and lot more.

This book is about the Fundamentals of Blockchain technology, written by Dr. Kartik Hegadekatti, a senior Civil Servant in Government of India. He has worked extensively on Blockchains and is an authority on it. He has published more than 30 papers internationally and written various books on Blockchains and fintech.

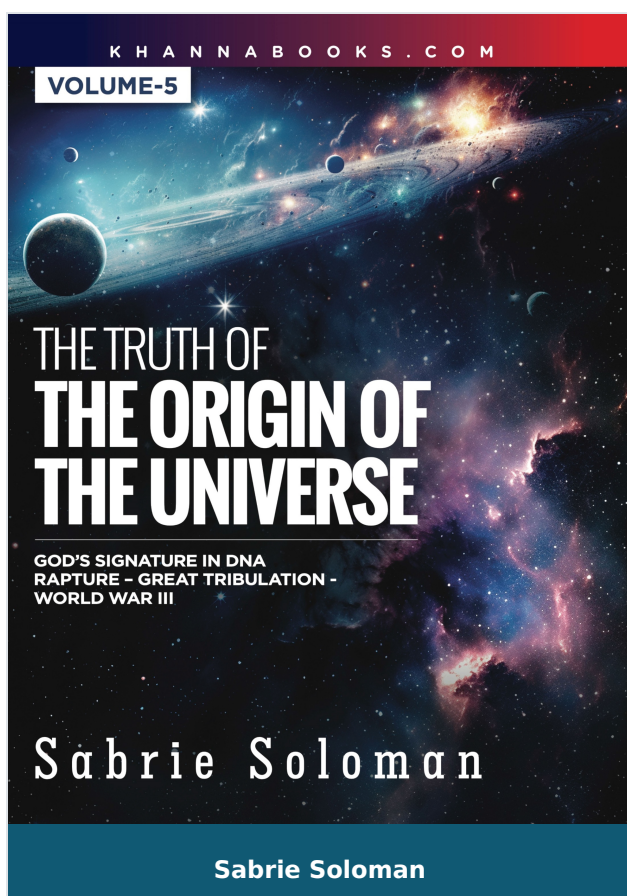
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- Introduction to the Concepts of Money
- An Overview of Blockchain Technology
- The Basics of Blockchain Technology
- Blockchain Technology Stack
- Tiers of Blockchain
- Types of Blockchain
- Types of Consensus Algorithms
- The Bitcoin Blockchain
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- Blockchain Use Cases
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- Question Bank.
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- Glossary

Author

Kartik Hegadekatti

Anshul Kaushik is a consultant with over 15 years experience on network security domain. He has worked on various domains in information technology industry throughout his career. An alumni of BITS Pilani he is actively involved in new innovations and research programs. Currently he is working on the power sector's Smart platform. He is also a certified instructor from Indira Gandhi National Open University and teaches computer security weekends for the university.



The Truth of The Origin of The Universe (GOD,S Signature in DNA Rapture- Great Tribulation - World War III) Volume - 5

Author :	Sabrie Soloman
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M.R.P :	Rs 749.00
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Condition Type :	New
Country Origin :	India

Product Description

God's Signature in DNA the Rapture The Great Tribulation Armageddon War (World War III)

The concept of God's signature in DNA is a fascinating topic that explores the intricate design and complexity of the human genome. Many creationists and religious believers see the complexity and precision of DNA as evidence of an intelligent designer or creator, pointing to the existence of a higher power. The idea that DNA contains a signature of God's handiwork is a theme often discussed in religious and philosophical circles, highlighting the wonder and mystery of life itself.

Moving on to the topics of the Rapture, the Great Tribulation, and the Armageddon War, these concepts are deeply embedded in Christian eschatology or the study of end times. The Rapture is believed to be the biblical event where believers are taken up to heaven to be with God before a period of tribulation and judgment on earth. The Great Tribulation is a period of intense suffering and turmoil prophesied to occur before the final battle of Armageddon, believed by the author to be World War III.

These apocalyptic beliefs have captured the imagination of many believers and have inspired countless books, movies, and religious teachings. While interpretations of these events may vary among different Christian denominations, the underlying message of hope, redemption, and faith in the face of adversity remains a central theme.

Chapters Covered in This Book:

1. The Signature of the Creator in DNA.
2. The Moral Laws.
3. The Beginning and the Ending of the Universe.
4. Will Robots Inherit the Earth.

5. The Universe is Being Held Together.

6. The Mystery of 6 Day Creation.

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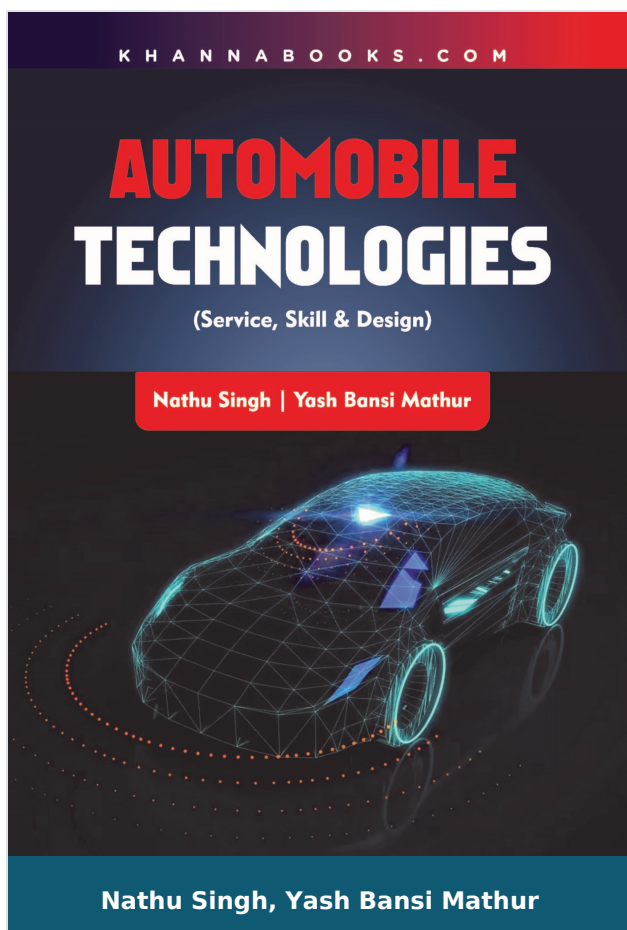
- Dedication
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- The Signature of The Creator On DNA
- The Universe Is Being Held Together
- The Moral Laws
- The Mystery of 6-Days Creation
- The Beginning and the Ending of Universe
- Will Robots Inherit The Earth?

Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, Inc, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation,

Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA



Automobile Technologies (Service, Skill & Design)

Author : Nathu Singh, Yash Banshi Mathur

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Categories : [New Arrivals, Automobile Engineering, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

To award Certificate/Diploma/Advanced Diploma/ Degree level Professional courses to the technicians and engineers and to provide vertical mobility vertical mobility in the Service, Skills and Design stream of automotive sector, some model curriculum has been designed by the Technical Boards and Technical Universities has included in the book. The book consists of Motor Vehicle Technology, Automotive Systems, Drawing and Design. These systems are very useful for all level of technicians covering some practical and theoretical knowledge and technics of Automotive field. After studying the book, the person would acquire relevant and appropriate technical skill together with the professional competencies in the automotive fields, so that he may properly prepare to take gainful employment in the field.

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- Fuel Systems of Diesel Engines
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- Free hand Diagram of the Main Systems of the Vehicle
- Drafting of Sectional Views of the Main Assemblies
- Vehicle Depot Organization

- Design of the Main Components of an Automobile Engine

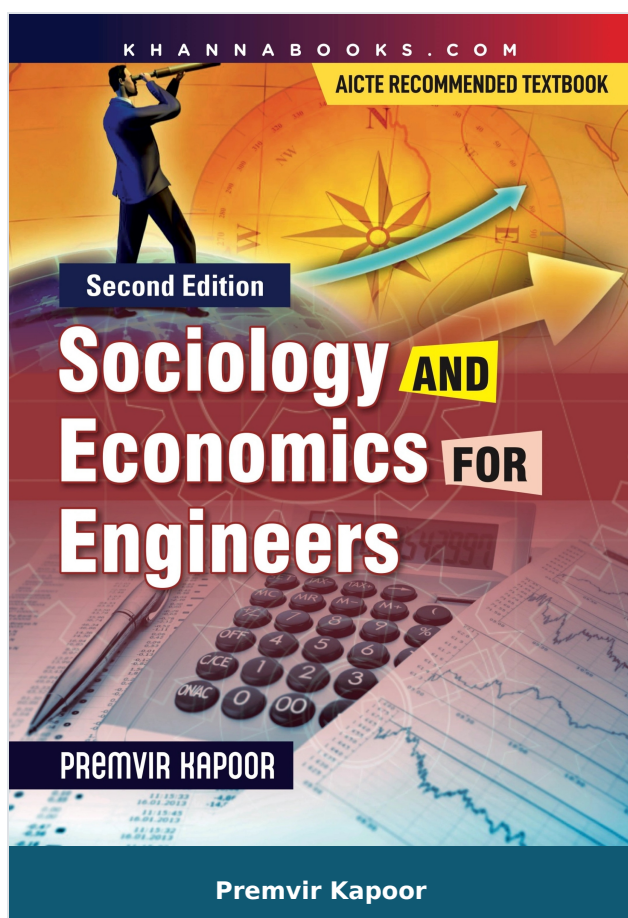
Author

Nathu Singh

Nathu Singh,

Yash Bansil Mathur

Yash Bansil Mathur



Sociology and Economics for Engineers

Author :	Premvir Kapoor
ISBN 13 :	978-93-55389-53-4
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Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

The book will help the students to understand variety of economics and sociological issues the concepts. It shall provide to them an insight and knowledge to understand the impact of developments in business an society. The book will meet the requirements of the engineers to evaluate the comparison of alternatives that involve spending money and their likely outcomes.

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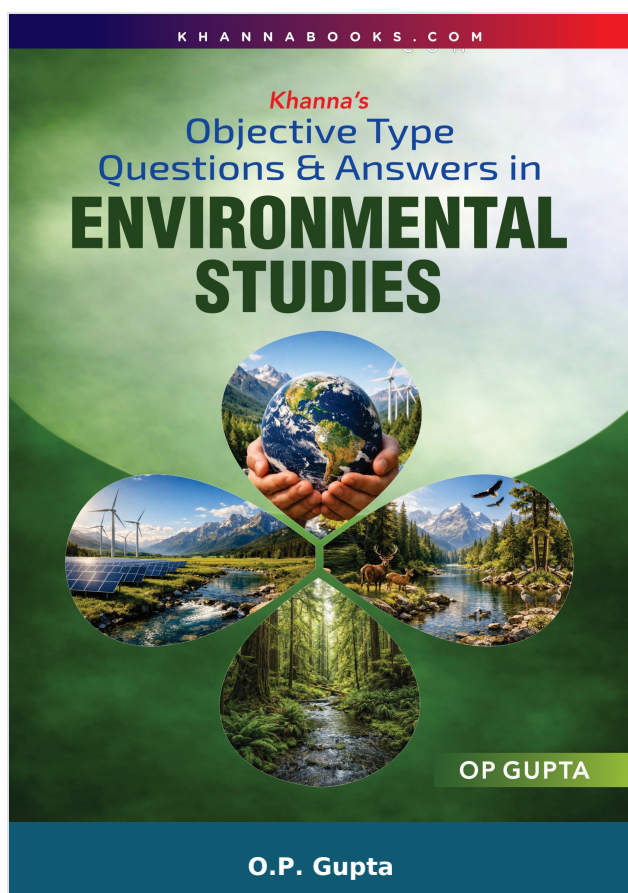
- Sociology
- Society
- Engineering Economics
- Demand Analysis
- Supply Analysis
- Equilibrium Analysis
- Theory of Production
- Project Evaluation
- International Trade
- Money and Banking
- Financial Accounting
- Book Keeping And Accounting
- Final Accounts
- Depreciation
- Cost Concepts
- Break Even Analysis
- Important Terms
- Questions for Review

Author

Premvir Kapoor

Dr. Premvir Kapoor BBM(BHU), MBA(Podar Institute of Management), LLB Delhi,
Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma

in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.



Khanna's Objective Type Questions & Answers in Environmental Studies

Author :	O.P. Gupta
ISBN 13 :	978-93-74545-90-4
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Edition :	First
Pages :	308
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
Categories :	Objective Type Books, New Arrivals, Environmental Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Objective Type Questions and Answers in Environmental Studies by Om Prakash Gupta is a meticulously structured academic guide designed to simplify the complexities of environmental science. This comprehensive resource serves as a vital tool for students and professionals navigating the interdisciplinary nature of ecology, pollution control, and sustainable development. By blending fundamental concepts with a rigorous examination framework, the book provides readers with the clarity needed to understand human-environment interactions and the critical challenges facing our planet today.

The book's primary objective is to foster environmental consciousness and ethics through a diverse range of assessment styles. It is specifically tailored to meet the curricular requirements of degree, postgraduate, and diploma students across various engineering branches. Additionally, it serves as an essential reference for candidates preparing for professional associate membership examinations, such as AMIE, AMIIM, and AMIChE, as well as B.Sc. and M.Sc. students. With its systematic approach and practical focus, the book bridges the gap between academic theory and real-world environmental management.

Salient Features

- **Dual-Section Assessment Model:** The text is strategically divided into objective-type questions and short-answer formats to cater to different examination patterns and learning styles.
- **Multidisciplinary Scope:** It covers a wide range of topics, including ecology, ecosystem dynamics, biodiversity, and the socio-economic impacts of industrialization and urbanization.
- **Sustainable Development Focus:** A significant emphasis is placed on sustainable practices, exploring the balance between economic growth and the preservation of

natural resources for future generations.

- **Environmental Impact Tools:** The book provides detailed insights into critical regulatory and assessment tools, such as Environmental Impact Assessment (EIA), essential for modern engineering and policy-making.
- **Biodiversity and Conservation:** Readers gain an in-depth understanding of genetic, species, and ecosystem diversity, alongside the legislative frameworks designed for wildlife and forest protection.
- **Human-Centric Challenges:** The content addresses pressing human issues, including population explosion, family welfare programs, and the health impacts of environmental pollutants like heavy metals and pesticides.
- **Comprehensive Technical Glossary:** A specialized glossary is included to define complex terminology in environmental science and renewable energy, ensuring students master the professional vocabulary of the field.
- **Practical Problem Solving:** Through its diverse Q&A format, the book encourages the application of engineering interventions for environmental protection, such as flood control and waste management.

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- SECTION A: Objective Type Questions
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- SECTION C: Glossary

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.



Programming in Python

Author :	K. Abinaya, Saraswathi
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E-ISBN 13 :	978-93-55389-64-0
Edition :	First
Pages :	120
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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

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.

Table Of Contents

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

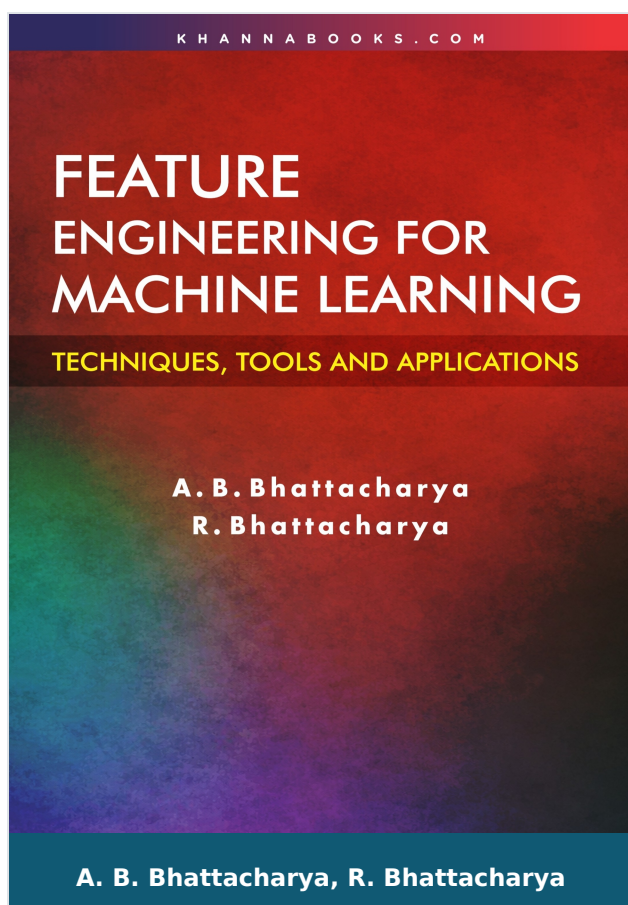
Author

K. Abinaya

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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.



Feature Engineering for Machine Learning (Techniques, Tools and Applications)

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Product Description

Feature Engineering for Machine Learning (Techniques, Tools and Applications)

Feature engineering is where machine learning success is truly built.

Algorithms get the spotlight, but the real competitive edge lies in how you shape your data. Feature Engineering for Machine Learning is your practical, no-nonsense guide to transforming raw data into powerful signals that unlock model performance, reliability, and insight.

Whether you're a data scientist, ML engineer, analyst, or student, this book takes you beyond theory into the craft of creating features that matter. You'll learn how to identify meaningful patterns, design robust transformations, handle messy real-world data, and systematically improve model outcomes.

Key Features

Through clear explanations, real examples, and actionable techniques, you'll discover how to:

- Turn raw data into predictive features
- Apply domain knowledge to engineer smarter signals
- Handle categorical, temporal, and high-dimensional data
- Avoid common pitfalls that sabotage model performance
- Build scalable, reproducible feature pipelines

Feature engineering isn't just a step in the workflow, it's the foundation of great machine learning. Master it, and you don't just build models... you build better decisions.

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- Preface
- Acknowledgement
- INTRODUCTION TO FEATURE ENGINEERING
- BASIC FEATURE PREPROCESSING
- FEATURE ENGINEERING TECHNIQUES
- FEATURE EXTRACTION VS. FEATURE SELECTION
- ADVANCED TOPICS AND CASE STUDIES

Author

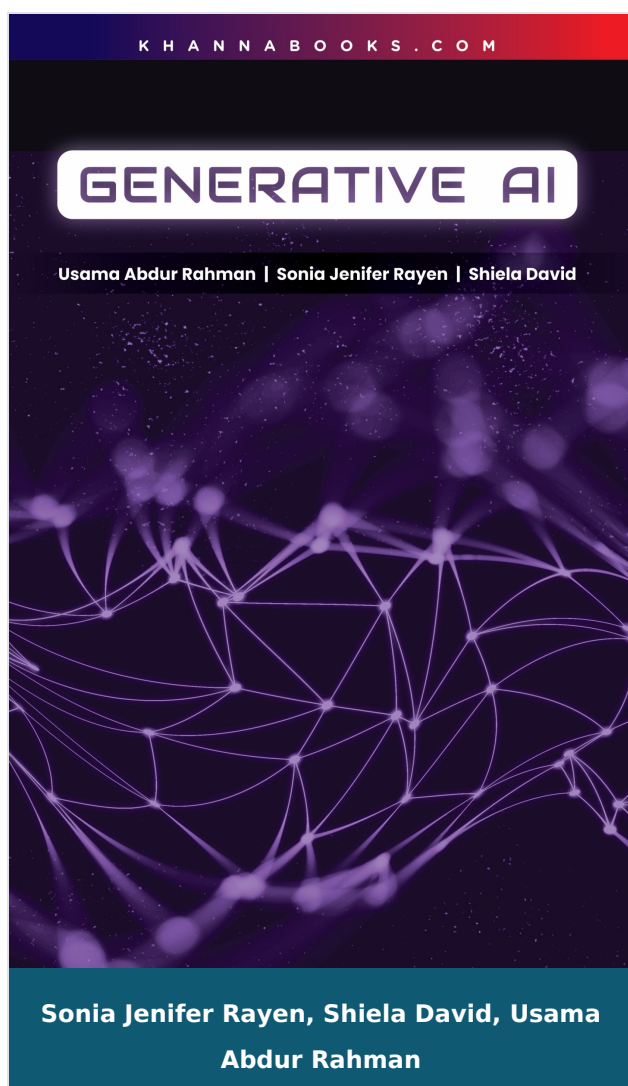
A. B. Bhattacharya

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 honored 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 lightning is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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Generative AI

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Product Description

Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

Beyond foundational concepts, the book explores advanced generative techniques such as Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), explaining their architectures, workflows, and practical applications. Readers gain insights into how generative models create realistic text, images, and multimedia content, while also understanding the principles behind AI Agents, prompt engineering, and modern AI development frameworks.

The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

Salient Features:

- **Foundational AI Concepts:** Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
- **Transformer Architecture Deep Dive:** Thoroughly explains Transformer Models, the Attention Mechanism, and the distinctions between encoder-based architectures (such as BERT) and decoder-based Large Language Models.
- **Large Language Model Mastery:** Covers the principles, architectures, and applications of LLMs, including their use in natural language processing, content generation, summarization, translation, and conversational AI systems.
- **Advanced Generative Models:** Presents comprehensive coverage of Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs), detailing their components, workflows, training methodologies, and practical applications.
- **Practical AI Agents & Frameworks:** Introduces AI Agents and modern development frameworks such as Lang Chain, enabling readers to build scalable and production-ready Generative AI applications.
- **Cross-Industry Applications:** Demonstrates the transformative impact of Generative AI across multiple sectors, including healthcare, manufacturing, finance, software development, and digital media.
- **Model Evaluation Techniques:** Explains important evaluation metrics such as Perplexity, BLEU Score, and ROUGE Score, helping readers assess and benchmark the performance of generative and language models.

- Future & Ethical Directions: Explores emerging topics including Multimodal AI, prompt optimization techniques (Top-K and Top-P sampling), ethical AI practices, Quantum AI, and Neuromorphic Computing.

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- Introduction to Generative AI
- Transformer
- Large Language Models (LLMs)
- Image Generation
- Model Evaluation and Future of Generative AI

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