

Kamatchi K. S., Sundaravelrani

Open Source Software

Author :	Kamatchi K. S., Sundaravelrani
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Product Description

Open Source Software

Open-Source Software (OSS) has fundamentally transformed the modern technological landscape, becoming the backbone of computing by driving innovation, collaboration, and democratizing access to powerful tools.

Open Source Software is a comprehensive guide designed to equip both seasoned developers and newcomers with the theoretical and practical knowledge needed to thrive in the open-source ecosystem. The book starts with an in-depth exploration of the legal landscape, clarifying complex topics such as copyright, patents, and licensing (including GPL, MIT, and Apache) to ensure legal compliance in open-source projects.

The technical journey delves into the foundational tools, including the indispensable GNU/Linux operating system and its core utilities, compilers, and linkers. It masters open-source programming techniques such as version control (Git), code reviews, and effective development toolchains. Ultimately, this text empowers you to contribute to and leverage OSS systems, transforming you from a user into a vital participant in the global open collaboration movement.

Salient Features:

- **Legal and Licensing Mastery**: Comprehensive coverage of Intellectual Property (IP) Rights and the core concepts of Free Software (the four freedoms). Detailed analysis of copyleft licenses (GPL, AGPL) versus permissive licenses (MIT, Apache, BSD).
- **GNU/Linux System Essentials**: Installation and configuration of GNU/Linux distributions, including mastering basic shell commands for file/directory management.

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- **Server Configuration**: Practical instruction on setting up and managing open-source Email (Postfix), Web (Apache), File (NFS), and Proxy Services.
- **Programming and Debugging Tools**: Deep understanding of GNU LIBC Libraries, Compilers, and Linkers, along with powerful tools for Memory Debugging/Profiling (Mpatrol and Valgrind).
- **Scripting and Automation**: Hands-on introduction to Bash, SED, and AWK scripting for system automation and data manipulation.
- **GUI Application Development**: Introduction to cross-platform GUI Programming using open-source frameworks like Qt and GTK+, including techniques for Localization.
- **FOSS Philosophy and Trends**: Examination of the FOSS philosophy and trends, including its global and Indian adoption and potential.

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- Overview Of Free/Open Source Software
- Linux
- Open Source Tools and Technologies for Hardware and E-Mail server
- Understanding GNU LIBC Libraries, compilers and linker
- Open-source Programming Techniques
- Exercise

Author

Kamatchi K. S.

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

Sundaravelrani

Sundaravelrani

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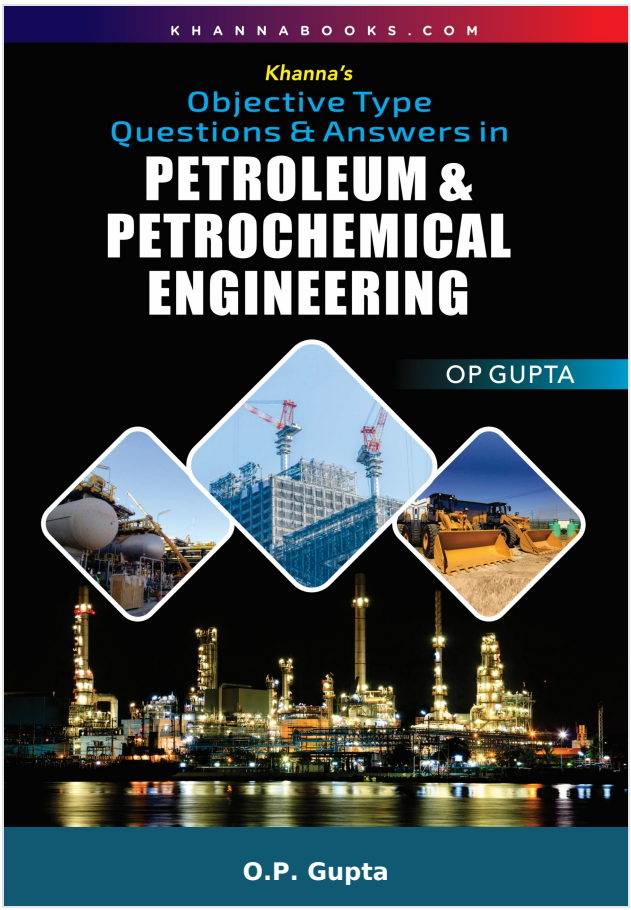

Khanna's Objective Type Questions & Answers in Petroleum & Petrochemical Engineering

Author :	O.P. Gupta
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Product Description

Objective Type Questions and Answers in Petroleum & Petrochemical Engineering is a comprehensive academic resource designed to provide a deep and structured understanding of the oil and gas industry. Authored by Om Prakash Gupta, a seasoned expert with extensive industrial experience at Bokaro Steel Plant, this book serves as an essential guide for mastering the technical nuances of petroleum refining and petrochemical manufacturing. Its core theme revolves around bridging the gap between theoretical engineering principles and their practical applications in the energy sector.

The book is meticulously divided into two primary sections: Petroleum Engineering and Petrochemical Engineering. Each part features a rich repository of objective-type questions, detailed short-answer explanations, and a specialized glossary of terms to ensure a holistic learning experience. By covering critical topics such as crude oil properties, refining processes like cracking and reforming, and the synthesis of polymers and elastomers, the text provides the practical value needed to excel in both academic and professional environments.

Salient Features

• Dual-Domain Coverage: The text provides a balanced and exhaustive exploration of both Petroleum and Petrochemical Engineering, ensuring students gain expertise in the entire hydrocarbon value chain.

• Examination-Oriented Design: Prepared in strict accordance with the latest academic and professional syllabi, making it a perfect companion for AMIE, AMIICHE, and university-level competitive exams.

• Extensive Question Bank: Includes a vast collection of objective-type questions with detailed answers, designed to test and reinforce the reader's grasp of fundamental and advanced engineering concepts.

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• Detailed Conceptual Explanations: Features structured short-answer questions that delve into the "why" and "how" behind industrial processes, such as catalytic hydrotreating and solvent dewaxing.

• Comprehensive Technical Glossaries: Each section concludes with a dedicated glossary of related terms, providing quick-reference definitions for essential industry terminology and jargon.

• Focus on Modern Refining: Covers cutting-edge industrial processes including catalytic reforming, alkylation, and the production of specialized fuels like Aviation Turbine Fuel (ATF).

• Industrial Process Insights: Provides practical knowledge on refinery operations, from the detection of petroleum deposits to the final blending of hydrocarbons and chemical additives.

• Polymer Science Integration: Explores the petrochemical sector's role in creating essential materials, including plastics, rubbers, and synthetic fibers, highlighting their real-world manufacturing routes

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- Part-II: Petrochemical Engineering
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- B. Short Answer Type Questions in Petrochemical Engineering
- C. Glossary Of Petrochemical Engineering

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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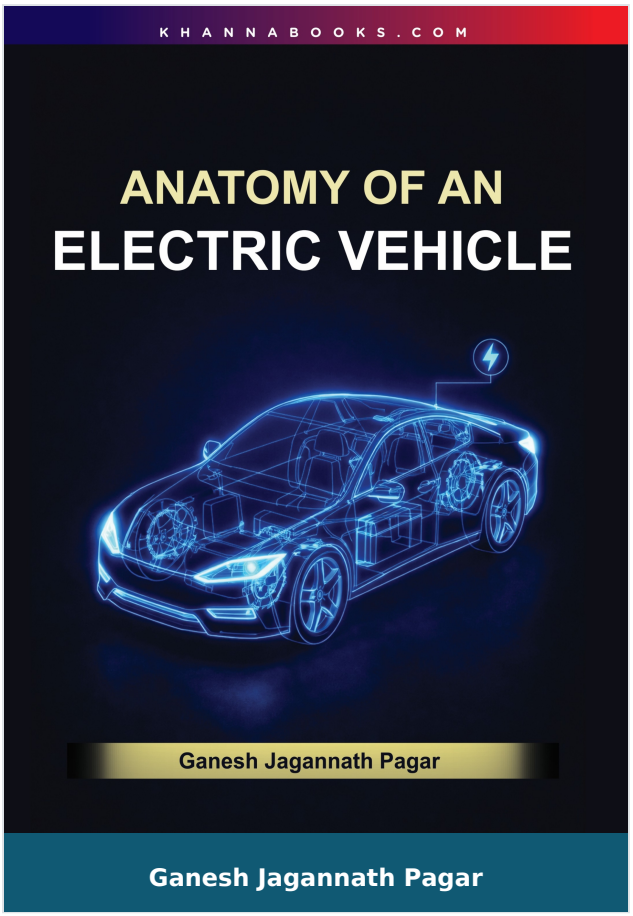

Anatomy of An Electric Vehicle

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Product Description

Anatomy of An Electric Vehicle

This book has been written with a simple and clear purpose, to help readers understand electric vehicles in an easy and practical way. As a teacher and an author, I have often noticed that many students and technology enthusiasts are curious about EVs, but they get overwhelmed by complicated technical terms. This book is my effort to make that journey easier and more enjoyable.

In these pages, you will learn how electric vehicles work, their key components, vehicle layouts, and battery technologies. I have also explained how EVs compare with conventional vehicles, along with insights into the growth of electric mobility in India, important government policies, and real-world examples from leading manufacturers. Every topic is presented step by step in simple language so that beginners, students, and technical learners can build strong fundamentals without feeling lost.

My aim is not only to share information but to build real understanding and confidence about the future of mobility. I truly hope this book encourages readers to explore further, keep learning, and become part of the exciting and evolving world of electric vehicles.

Salient Features:

- **Fundamentals of Electric Vehicles**: Clear explanation of EV basics, working principles, and how they differ from conventional vehicles.
- **Core EV Components Explained**: Structured understanding of battery packs, electric motors, power electronics, and control systems.
- **Vehicle Layout and Architecture**: Simple explanation of EV design, including battery placement and motor configuration.
- **Battery Technology**: Covers lithium-ion batteries and emerging future battery technologies.

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- **Charging Systems and Infrastructure**: Overview of home charging, fast charging, and the importance of charging networks.
- **Indian EV Policies and Industry Insights**: Discusses government initiatives like the FAME India Scheme and examples from leading manufacturers such as Tesla.
- **Student-Friendly Learning Approach**: Written in simple language, ideal for diploma, engineering, and technical students.

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Author

Ganesh Jagannath Pagar

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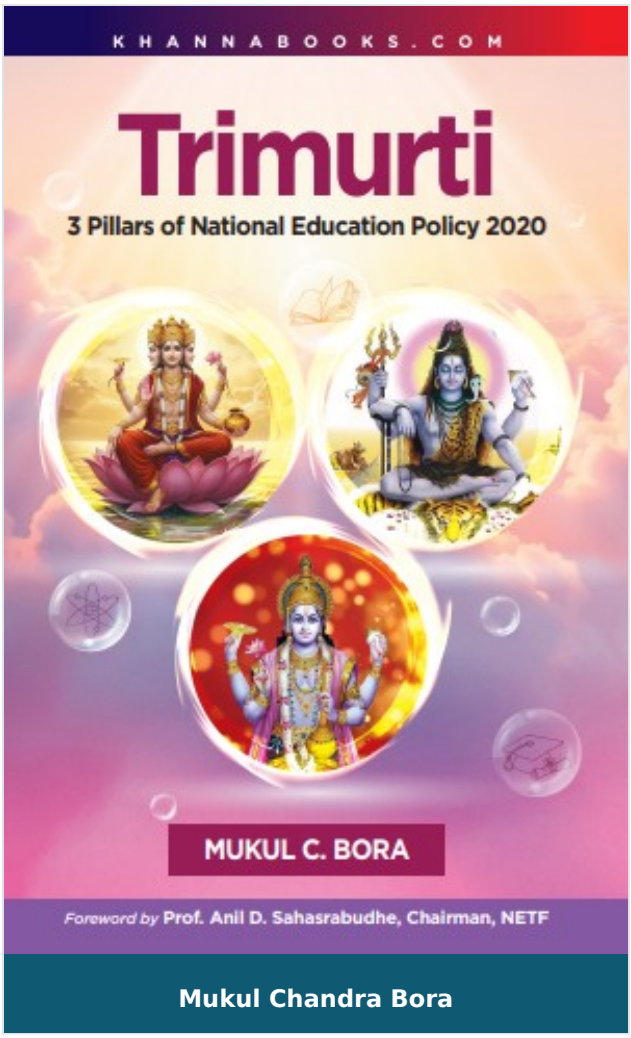

Trimurti (3 Pillars of National Education Policy 2020)

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Product Description

3 pillar of National education policy 2020

This book beautifully connects the wisdom of the Trimurti-Brahma, Vishnu and Shiva, with the vision of our National education policy (NEP) - 2020. It blends Bharat’s ancient knowledge traditions with modern education reforms, inspiring holistic growth, inclusivity and future readiness for learners and educators alike.

Salient Features

- Presents NEP 2020 through the lens of India’s cultural heritage.
- Explains how Brahma, Vishnu and Shiva are considered symbols of India’s education system’s creation, preservation, and transformation
- Highlights the Indian Knowledge system’s role in modern education.
- Promotes multidisciplinary, values-based and skill-oriented education.
- Bridges tradition and innovation for sustainable progress.
- Written in simples, engaging and relatable language.

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- Foreword
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- Lord Vishnu and multidisciplinary Education and Research
- Rudra as the third pillars of National Education policy 2020
- The Role of IKS, Multidisciplinary Research, and 21st Century Skills as per National Education Policy 2020
- Conclusion

Author

Mukul Chandra Bora

Dr. Mukul Chandra Bora has an extensive academic background in civil engineering, reflecting his commitment to scholarly excellence. He earned a Ph.D. in Civil Engineering from the Indian Institute of Technology (TIT) Guwahati in 2011, following an M. Tech in Geotechnical Engineering from IIT Kharagpur in 2000. His journey in the field began with aB.E.in Civil Engineering from Dibrugarh University in 1988. With decades of professional experience, Dr. Bora has held key academic and administrative roles. Since August 2012, he has been the Director of the Institute of Engineering & Technology, Dibrugarh University. Previously, he served as State Project Administrator for the Northeast State Project Implementation Unit (2017-2021) of TEQIP - III project of Ministry of Education, Government of India. His teaching career includes a tenure at Technical Education Department of Government of Assam together with professional experience as a Quantity Surveyor at PBS Limited, Guwahati (199l-1995) and a Site Engineer at M.L. Dalmiya & Co.

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Ltd., Kolkata (l989-1991). Dr. Bora's research and consultancy work focus on ground improvement techniques, geosynthetics, rainfall impact on groundwater, non-biodegradable waste in construction, and slope stabilization. He has contributed significantly to materials characterization and geotechnical investigations for major infrastructure projects, including power plants and industrial facilities. He is at fellow of the Institution of Engineers (India), a Senior Member of the Asia Pacific Chemical, Biological and Environmental Engineering Society (Hong Kong), and a Member of the International Association for Life Cycle Civil Engineering (Italy). Additionally, he serves as a reviewer for reputed journals, including Springer's Journal of the Institution of Engineers (India), Series A. Beyond civil engineering, Dr. Bora has made remarkable contributions to the Bhartiya Knowledge System (BKS), which encompasses philosophy, science, mathematics, astronomy, Ayurveda, linguistics, and traditional Indian technologies. Rooted in ancient texts like the Vedas and Upanishads, BKS has profoundly influenced Indian civilization. Dr. Bora is dedicated to reviving and integrating traditional Indian knowledge with modern research and education, bridging the gap between ancient wisdom and contemporary advancements. His book, ''Foundations of Bhartiya Knowledge System" (2023), published by Khanna Publishing House, delves into the fundamental principles of India's knowledge systems, promoting their relevance in the modem era. Through his work, Dr. Bora continues to advance both civil engineering and India's intellectual heritage, fostering a deeper appreciation of Bhartiya wisdom among scholars and students.

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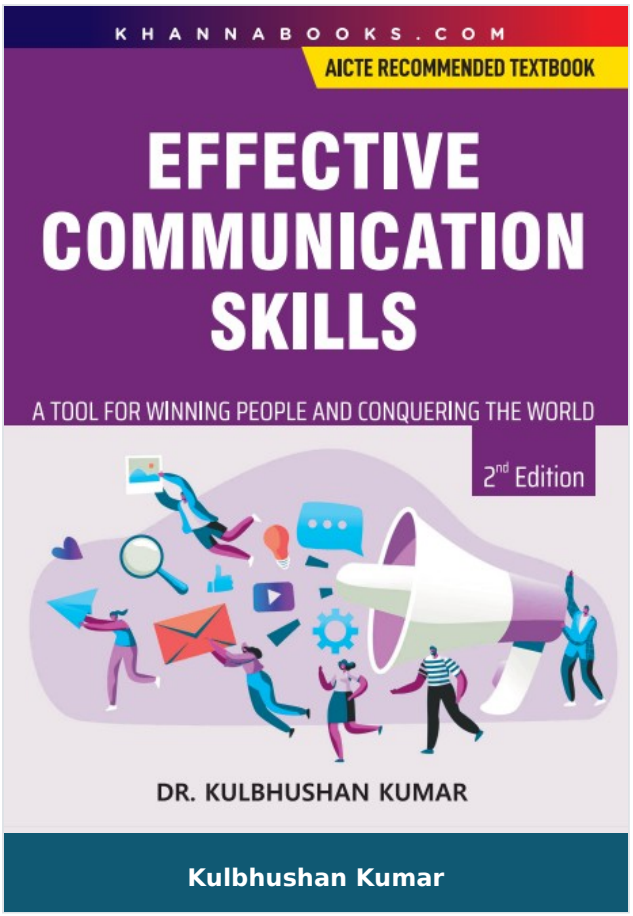

Effective Communication Skills | AICTE Recommended

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Product Description

Effective Communication Skills | AICTE Recommended

This is a comprehensive guide to mastering the indispensable art of communication. The book explores the vast importance of English, offering a practical, holistic approach to various aspects of business communication. Divided into sixteen chapters, including a new one on linguistics, it covers everything from the fundamentals of Listening, Speaking, Reading, and Writing (LSRW) to advanced topics.

Readers will find actionable strategies for impactful oral presentations, professional guidance for business correspondence like emails, reports and templates for standout resume. The book also hones skills essential for group discussions, meetings and interviews, ensuring readers can articulate their ideas with confidence.

This book is envisioned as a textbook for BBA, BCA, MBA, MCA, Engineering and for various other academic courses to meet the growing academic and professional needs of learners from diverse streams. Whether preparing for job interviews, internships, group discussions, or leadership roles, students will find in these pages the guidance they need to communicate with clarity, confidence and impact.

With a strong foundation in grammar and a simple, accessible language, the book includes real-world examples, case studies and practical exercises. It follows and Outcome Based Education approach, empowering students with the language and life skills needed to succeed in academic and professional landscapes. This book is a timely and thoughtfully curated resource for success in the 21st century.

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- Business Correspondence Planning A Business Letter
- Business Correspondence Reports, Tenders, Orders, Proposals, Memorandums, Notices, Circulars.
- Business Correspondence Resume And Cover Letters
- Group Discussion
- Meeting Skills
- Professional Tele-Communication Skills
- Interview Skills
- Linguistics
- English Grammar

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Author

Kulbhushan Kumar

Kulbhushan Kumar Former Head, Department of English and Communication Studies and Former Chief Editor and Coordinator. EU Voice University Magazine, Eternal University, Baru Sahib (Himachal Pradesh).

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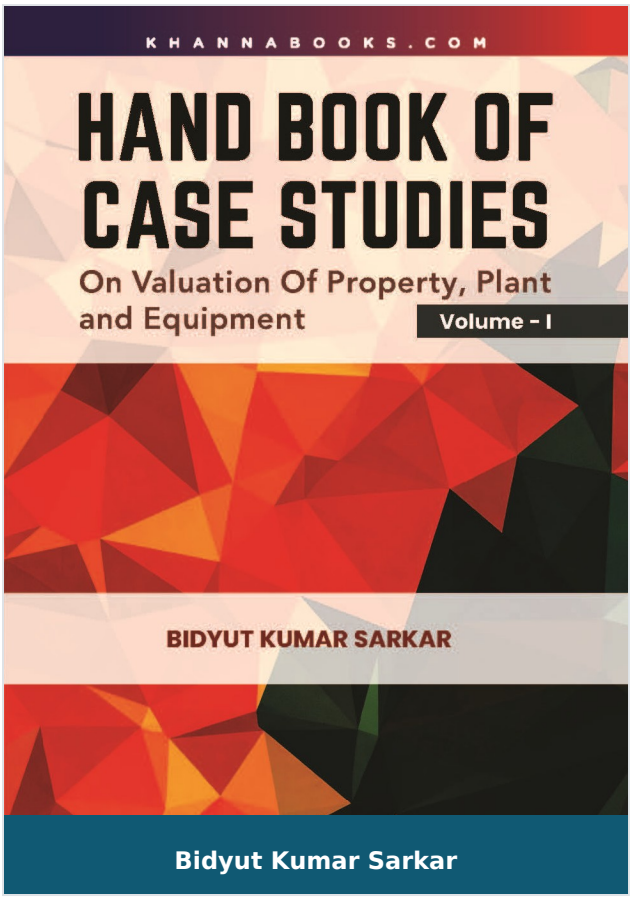

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-1

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Product Description

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), (Volume - I)

“Hand book of Case Studies: On Valuation of Property, Plant, and Equipment (Volume - I)” offers a comprehensive and practical guide for students and professional aiming to develop Expertise in valuation report writing within the field of PPE. Drawing on real-world examples and detailed case studies, the book effectively bridges the gap between valuation theory and practical application, making it an essential resource for aspiring and practicing valuers. Valuation is a critical skill across many industries, yet the practical of report writing are often underrepresented in traditional education.

This book addresses that gap by providing structured guidance of preparing accurate and reliable valuation reports. It covers key areas such as data collection, analysis of market conditions, methodologies, and adherence to professional standards, with a strong focus on mortgage valuation scenarios. Through its case studies, the book demonstrates how professional judgement, supported by technical knowledge, leads to objective and defensible valuations.

The book also emphasizes the importance of understanding the context of valuation, including the expectations of investors, property owners, and businesses, as well as evolving market conditions. It highlights the role of the valuer as an intermediary who connects clients with market realities and provides insights that support informed financial decision-making. Written in a clear and accessible style, Hand book of Case Studies: On Valuation of Property, Plant, and Equipment serves both as a learning tool and a reference guide, and is highly recommended for students of Management, Valuation, and related disciplines, as well as professionals seeking to enhance their skills in property and asset valuation.

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- Preface
- About the Author
- Acknowledgement
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- Revaluation of Fixed Assets: - Army Walfare Project Ltd (AWPL), Samdrup Jongkhar BWH, Samdrup Jongkhar, Bhutan
- Revaluation of Fixed Assets: - Army Walfare Project, Gelephu Distillery, Gelephu, Bhutan
- Revaluation of Fixed Assets: - Army Walfare Project Ltd (AWPL), BCD, Bihar, Gelephu, Bhutan
- Revaluation of Fixed Assets: - Army Walfare Project Ltd (AWPL), Thimphu BWH & Saw Mill, Bhutan
- Revaluation of Fixed Assets: - Army Welfare Project Ltd (AWPL), H. O., Bhutan
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- Revaluation of Fixed Assets: - Kurichu Hydropower Corporation Limited, (KHCL), Gelopozing Mongar, Bhutan
- Revaluation of Fixed Assets: - Chukha Hydropower Corporation Limited, Chukha, Bhutan
- Revaluation of Property, Plant & Equipment: - Kuensel Corporation Ltd., Post Box 204, Thimphu, Bhutan
- Revaluation of Real Property 2019 (Phase I-IV): - National Housing Development Corporation Ltd., Thimphu, Bhutan
- Revaluation of Property, Plant & Equipment: - Ayelabari Tea Estate, Karimganj Assam, HMP Poddar House, Kolkata

Author

Bidyut Kumar Sarkar

Bidyut Kumar Sarkar , is a former Scientific Offers/Engineering of the Department of Atomic Energy, Govt of India, Mumbai. He is a Chartered Engineer & a Fellow of the Institution of Engineering (India), Institution of Valuers (India), a Member of American Society of Appraisers (USA), A Regd Valuer under section 34 AB of the income tax & Wealth Tax Act 1957, Govt of India. He has been serving last 40 years as a consultant to Govt/Semi Govt/PSU/Corporate clients Spread over India, Bhutan, Nepal, and beyond which enables him to have a large tapestry of In-depth experience of valuation of tangible & intangible assets involving diverse industries viz, large and medium Hydropower plants, steel plants, steel plants, ferro Silicon and Ferro alloys plants, Ferro Silicon Magnesium plants, Mines & mineral industries. Cement, Chemical & Other Continuous Process Industries, Distilleries, Cigarette manufacturing and Readymade textile plants, wood Based Industries, Rigid PVC Pipes & Films manufacturing plants, food & Milk Processing industries, Real Properties, Five-star hotel (le’ Meridien, Thimphu), Tea processing plants

& plantation, large automatic particle board and gyp board plants, large residential complexes etc. and boundless creativity by navigating vibrant terrain and cultural nuances of people and places, real and surreal. He did publish a paper on Nuclear Instrumentation & process Control at a National Seminar Organized by BARC, Trombay, Mumbai and a number of books of poems in English.

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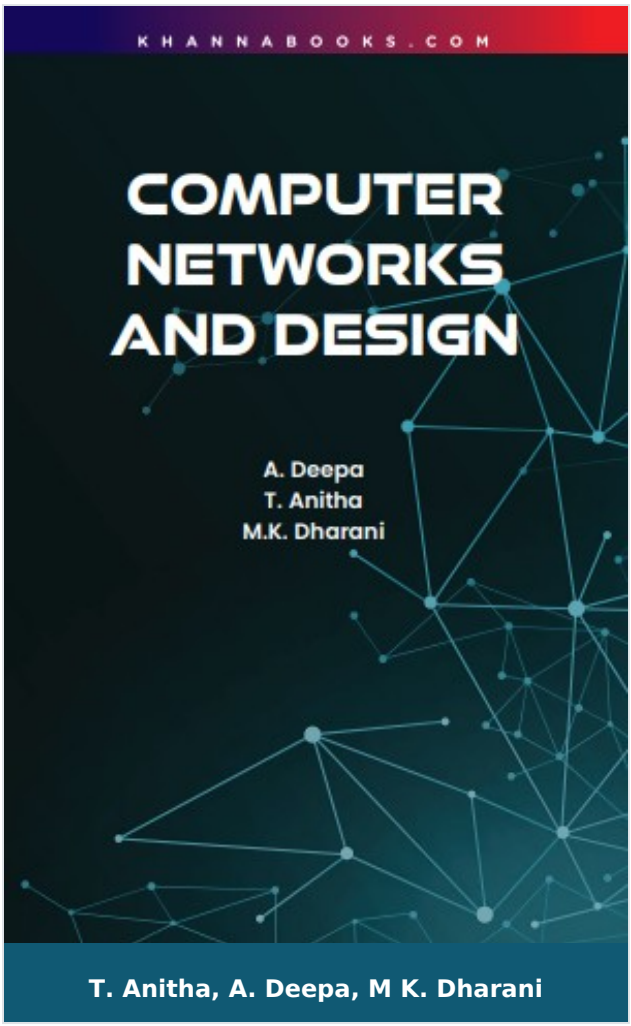

T. Anitha, A. Deepa, M K. Dharani

Computer Networks and Design

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Product Description

Computer Networks and Design

In the current era, where network infrastructure is the fundamental backbone of modern enterprises, this book serves as a comprehensive and practical guide to understanding the principles of effective computer network design and implementation. It addresses the ever-increasing need for well-designed, secure, and highly efficient network architectures across businesses of all sizes.

The core theme of the book is a structured, top-down approach to mastering the entire network lifecycle, moving from determining requirements and analyzing existing infrastructure to completing the final design, deployment, and long-term maintenance. It provides detailed coverage of fundamental design methodologies, including modular and hierarchical network design strategies that ensure scalability and efficiency. Beyond foundational concepts like LAN connectivity (Ethernet, Token-Ring) and the OSI model, the text delves into critical modern topics such as Virtual Private Networks (VPNs), Intranets, and Extranets for secure remote communication.

This resource is an ideal tool for a target audience including students of computer science and engineering, network professionals, and IT managers seeking to enhance their expertise in building and managing robust network infrastructures effectively. By bridging theoretical concepts with practical insights on networking tools (simulation, baselining) and evolving technologies (IP PBX, FoIP, xDSL), the book equips readers with the essential skills to design and optimize future-proof, high-performance network solutions.

Salient Features:

- **Modular Design Focus**: Details modular and hierarchical network design methodologies to improve scalability, management, and fault tolerance across complex LAN and WAN environments.

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- L**AN to Mainframe**: Covers underlying LAN concepts like Ethernet and InterLAN Switching, and provides specialized guidance on secure connectivity and integration with legacy Mainframe systems.
- **Virtual Security Architectures**: Dedicated unit on VPNs, Intranets, and Extranets, focusing on planning, management, and secure remote access implementation using technologies like IPSec VPNs.
- **Network Optimization Tools**: Introduces practical tools and techniques for network analysis, including network baselining as an effective planning tool and simulation methods for designing multimedia networks.
- **Real-time Communication**: Explores the integration of Voice over IP (VoIP) and Video over IP networks, detailing the setup of IP PBX telephony and Videoconferencing systems over IP networks.
- **Broadband Access Technologies**: Discusses emerging technologies in data communications, including the merits of xDSL technology and necessary preparations for utilizing high-speed cable modems.
- **Layered Design Analysis:** Provides a foundational review of the OSI model and various network topologies (Bus, Star, Mesh), offering a strong theoretical background for practical design decisions.

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- Fundamentals of Network Design
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- VPNs, Intranets and Extranets
- Networking Tools and Simulation
- Evolving Technologies

Author

T. Anitha

T. Anitha Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

A. Deepa

A. Deepa, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

M K. Dharani

M K. Dharani, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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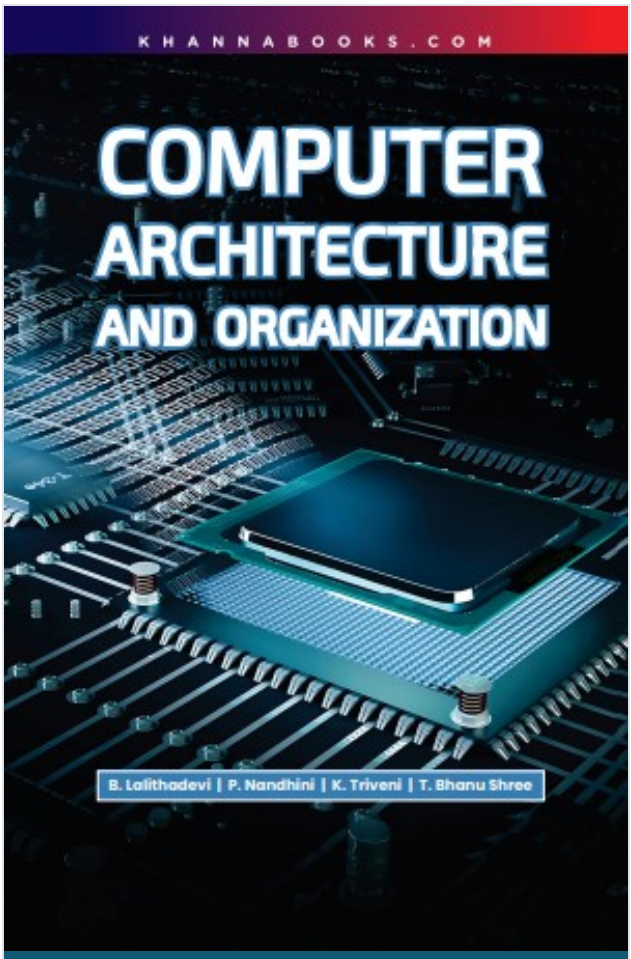

B. Lalithadevi, P. Nandhini, K. Triveni, T. Bhanu Shree

Computer Architecture and Organization

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Product Description

Computer Architecture and Organization

This book, "COMPUTER ARCHITECTURE AND ORGANIZATION," offers a comprehensive and structured exploration of the fundamental principles that govern the operation and design of modern computing systems. As technology continues its rapid advance across fields like artificial intelligence, healthcare, and communication, understanding the internal workings of a computer is crucial for creating high-performance and efficient architectures.

Designed specifically for students and professionals in computing technology, this text effectively balances theoretical concepts with practical applications to prepare readers for advanced studies and successful careers. The journey begins with the essential building blocks, detailing general register organization, instruction cycles, and the vital stack organization that facilitates efficient data manipulation and function calls.

The content systematically progresses through the core components, providing a clear explanation of the Arithmetic Logic Unit (ALU), including complex operations like Booth multiplication and floating-point arithmetic. Crucially, the book dedicates significant coverage to memory organization, exploring the essential memory hierarchy, cache memory (including mapping and replacement policies), and virtual memory implementation. Finally, it addresses contemporary system design challenges by covering Input-Output (I/O) mechanisms such as Direct Memory Access (DMA), and the complexities of modern multiprocessor systems, including interconnection structures and advanced cache coherence protocols. With its clear explanations and structured approach, this book serves as an indispensable resource for mastering the architecture and organization that powers the digital world.

Salient Features:

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- **General Register Organization**: Deep dive into how CPU registers (PC, AC, DR, IR) and the Last-In, First-Out (LIFO) stack organization manage data and control flow for high-speed instruction execution.
- **Instruction Set Comparison**: Compares and contrasts different instruction set architectures like MIPS, RISC, and CISC, alongside an analysis of one-, two-, and three-address instruction formats.
- **Advanced Arithmetic Units**: Comprehensive coverage of ALU micro-operations and complex computational algorithms, including Booth's multiplication and detailed procedures for floating-point arithmetic operations.
- **Memory Hierarchy Mastery**: In-depth analysis of the memory hierarchy, including the structure and function of cache memory, virtual memory, and specialized Content-Addressable Memory (CAM).
- **Efficient I/O Management**: Explores mechanisms for input-output data transfer, detailing concepts like Direct Memory Access (DMA), priority interrupts, and the principles of I/O processor (IOP) function.
- **Multiprocessor Architectures**: Essential concepts for parallel computing, examining interconnection structures, interprocessor communication and synchronization techniques, and interprocessor arbitration for shared resources.
- **Cache Coherence Protocols**: Critical focus on maintaining data integrity across multiple processor caches, explaining the need for and implementation of cache coherence mechanisms in high-performance computing.

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- Arithmetic logic unit and computer arithmetic
- Memory organization
- Input-Output Organization
- Characteristics of multiprocessors

Author

B. Lalithadevi

B. Lalithadevi,

P. Nandhini

P. Nandhini P. Krishnaveni

K. Triveni

K. Triveni,

T. Bhanu Shree

T. Bhanu Shree.

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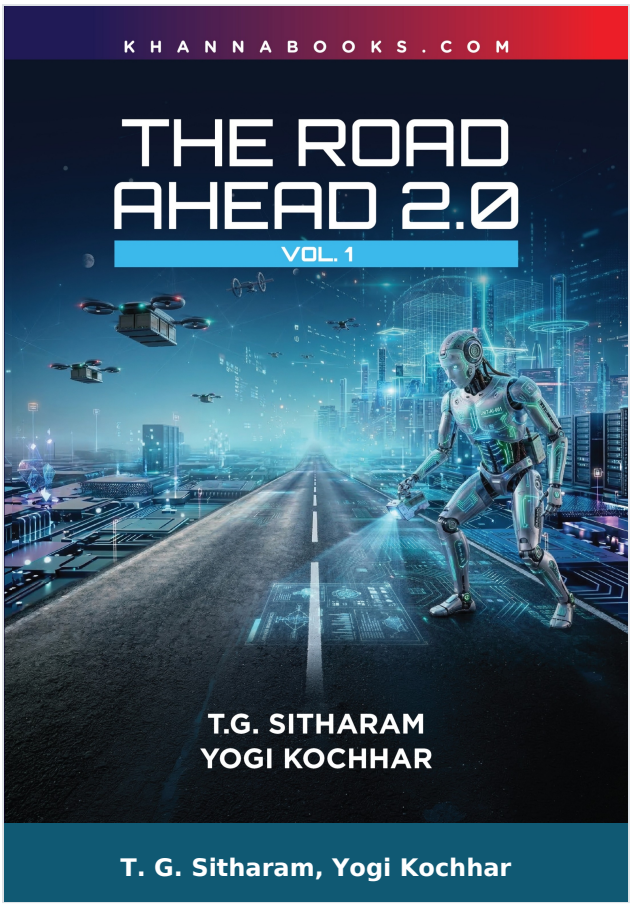

The Road Ahead 2.0 Volume-1 (Colour Edition)

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Product Description

The world stands at the edge of monumental change. Like the dinosaurs, we too tread the path of history, unaware of what's next. AI is here, and it's poised to transform how we live, work, and play.

This book draws inspiration from Bill Gates' The Road Ahead, Marconi's pioneering spirit, and Santiago's journey in Paulo Coelho's The Alchemist. As you explore the Preface and beyond, you'll find sparks of imagination—just as Gates did decades ago—igniting a revolution.

The book distills global activity through the lens of AI across 70+ concise chapters. Santiago embarks on a metaphorical quest through this "crystal ball," uncovering how AI will shape the future. Guided by engaging stories and analogies, you'll navigate a forest of ideas, including Santiago's imagined meeting with Harry Potter.

We've kept the chapters paper thin, allowing you to "eavesdrop" on conversations exploring whether AI is a bane or a boon. Along the way, we challenge you to reflect on critical truths: Practice precedes policy. Policies codify practices, but AI's rapid pace will always outstrip them. Like football played before rule books, generative AI will sprint light-years ahead of regulation.

Think of it as a modern Tom and Jerry—the policy-maker cat chasing an ever-moving laser pointer.

This journey is a call to action: adapt or adopt, for the times demand it. Otherwise, like footprints in the sand, we risk fading into obscurity.

For those seeking change, this book offers a different sauce. It's a salute to imagination, catalyzing transformation akin to Who Moved My Cheese?—an ode to Dr. Spencer Johnson. We carry him in a parody inside.

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Clue: Adapt, adopt, and lead. The AI revolution is here to stay.

Endorsements

“This illuminates AI’s unparalleled impact towards making a VIKSIT BHARAT aligning with our Prime Minister’s visionary call for AI adoption with care and sensitivity.”— Prof. Ajay K Sood, Principal Scientific Advisor, Govt of India.

“This book is an almanac that brings a purposeful exactitude to planet, people, and profit in that order where AI becomes a partner in achieving our shared goals.”— Prof. Phoebe Koundouri, Chair: Climate Change, UN SDSN.

“Fantastic, Insightful & visionary.”— Dr. H R Nagendra, Chancellor Svyasa University.

“AI will empower power. Brilliant work.”— Anil Sardana, Chairman Adani Power.

“Empathic, compelling, rich roadmap. A must read for all global institutions.”— Prof. Abhay Karandikar, Secretary, Ministry of Science & Technology

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- Education Management
- Education Streams

Author

T. G. Sitharam

T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

Yogi Kochhar

Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just

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what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

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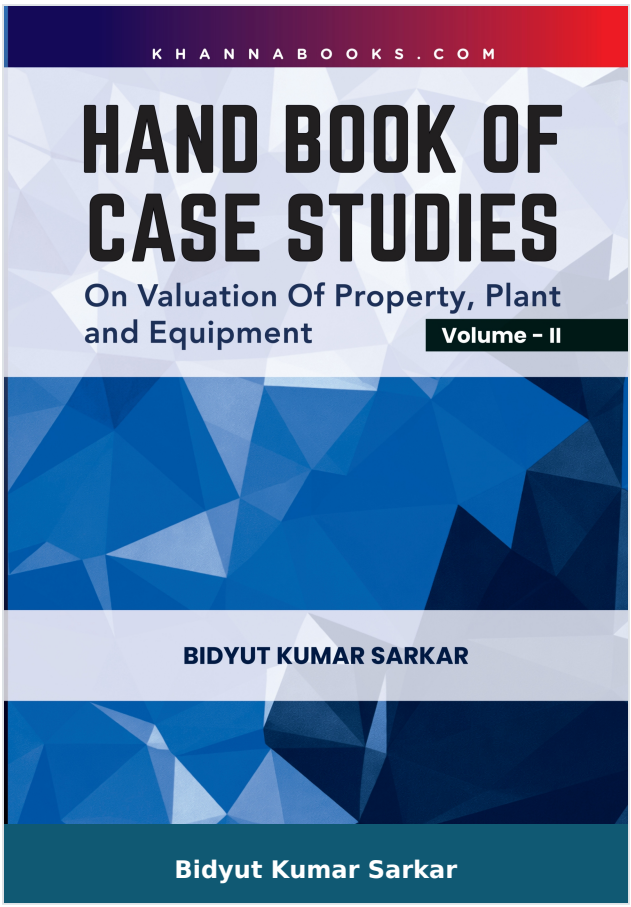

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-2

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Product Description

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-II

“Hand book of Case Studies: On Valuation of Property, and Equipment (Volume – II)” offers a comprehensive and practical guide for students and professionals aiming to develop expertise in valuation report writing within the field of PPE. Drawing on real-world examples and detailed case studies, the book effectively bridges the gap between valuation theory and practical application, making it an essential resource for practicing valuers. Valuation is a critical skill across many industries, yet the practical aspects of report writing are often underrepresented in traditional education.

This book addresses that gap by providing structured guidance on preparing accurate and reliable valuation reports. It covers key areas such as data collection, analysis of market conditions, valuation methodologies, and adherence to professional standards, with a strong focus on mortgage valuation scenarios. Through its case studies, the book demonstrates how professional judgement, supported by technical knowledge, leads to objective and defensible valuations.

The book also emphasizes the importance of understanding the context of valuation, including the expectations of investors, property owners, and businesses, as well as evolving market conditions. It highlights the role of the valuer as an intermediary who connects clients with market realities and provides insights that support informed financial decision-making. Written in a clear and accessible style, Hand book of Case studies: On Valuation of property, Plant, and Equipment serves both as professional seeking to enhance their skills in property and asset valuation.

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- Revaluation of Property, Plant & Equipment:
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- Revaluation of Property, Plant & Equipment:
- State Trading Corporation of Bhutan Ltd.

Author

Bidyut Kumar Sarkar

Bidyut Kumar Sarkar , is a former Scientific Offers/Engineering of the Department of Atomic Energy, Govt of India, Mumbai. He is a Chartered Engineer & a Fellow of the Institution of Engineering (India), Institution of Valuers (India), a Member of American Society of Appraisers (USA), A Regd Valuer under section 34 AB of the income tax & Wealth Tax Act 1957, Govt of India. He has been serving last 40 years as a consultant to Govt/Semi Govt/PSU/Corporate clients Spread over India, Bhutan, Nepal, and beyond

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which enables him to have a large tapestry of In-depth experience of valuation of tangible & intangible assets involving diverse industries viz, large and medium Hydropower plants, steel plants, steel plants, ferro Silicon and Ferro alloys plants, Ferro Silicon Magnesium plants, Mines & mineral industries. Cement, Chemical & Other Continuous Process Industries, Distilleries, Cigarette manufacturing and Readymade textile plants, wood Based Industries, Rigid PVC Pipes & Films manufacturing plants, food & Milk Processing industries, Real Properties, Five-star hotel (le' Meridien, Thimphu), Tea processing plants & plantation, large automatic particle board and gyp board plants, large residential complexes etc. and boundless creativity by navigating vibrant terrain and cultural nuances of people and places, real and surreal. He did publish a paper on Nuclear Instrumentation & process Control at a National Seminar Organized by BARC, Trombay, Mumbai and a number of books of poems in English.

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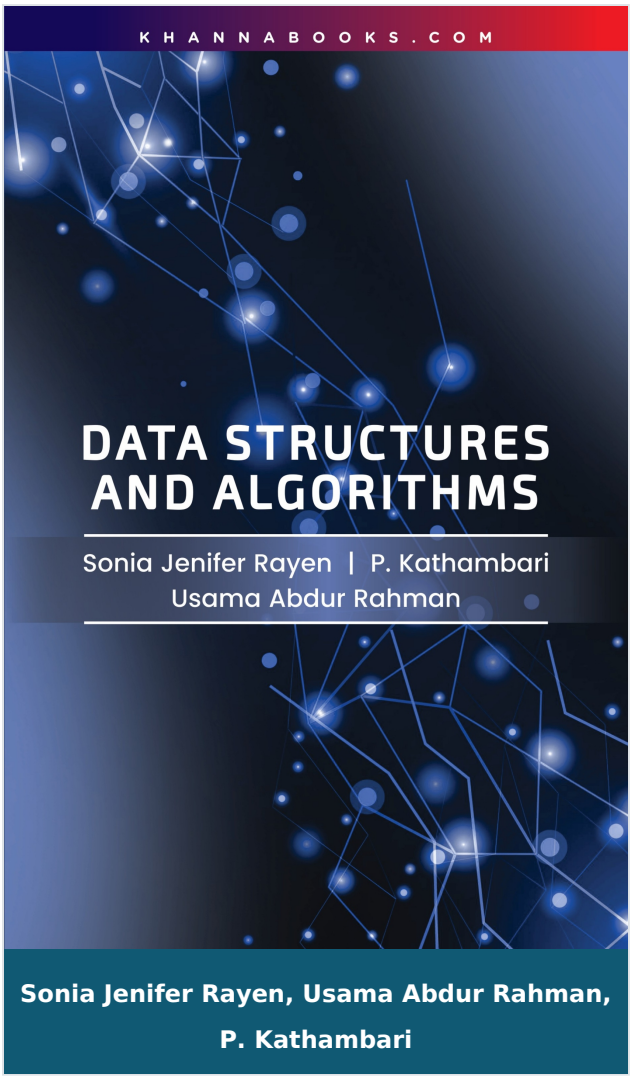

Data Structures and Algorithm

Author :	Sonia Jenifer Rayen, Usama Abdur Rahman, P. Kathambari
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Product Description

In the rapidly evolving landscape of computer science and technology, a foundational mastery of data structures and algorithms is paramount for efficient problem-solving and system design. This essential textbook is specifically designed to offer Computer Science, Information Technology, and allied students, along with educators and aspiring programmers, a broad and easy-to-understand exposition of these key principles.

The book's core purpose is to build a strong, clear, and practical understanding of fundamental concepts, integrating theoretical principles with applied implementation so readers can not only grasp the inherent logic but also implement solutions in real-world computing environments. The text systematically covers traditional structures like Arrays, Linked Lists, Stacks, and Queues, alongside complex non-linear structures such as Trees and Graphs. It then advances to essential algorithm design techniques, including Divide and Conquer, Greedy Algorithms, and Dynamic Programming, and comprehensively covers Searching and Sorting methods.

A key highlight is the dedicated focus on Algorithm Analysis, thoroughly explaining concepts like Time and Space Complexity and Big O notation to ensure readers can develop efficient, optimized solutions. Maintaining an academic yet friendly tone, the book ensures clarity by breaking down complex concepts, supplemented with numerous diagrams, real-life examples, and code snippets, primarily using Python for readability. This text is an indispensable guide for establishing the analytical and coding skills necessary for academic and professional success.

Salient Features:

• Foundational DS: Systematically covers primitive and non-primitive structures like arrays, linked lists, stacks, queues, trees, and graphs, forming the core of computing.

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• Performance Analysis: Explains the crucial concepts of Big O notation, time, and space complexity analysis, enabling the design of optimized and efficient coding solutions.

• Advanced Techniques: Details advanced algorithm design paradigms, including Divide and Conquer, the Greedy approach, Dynamic Programming, and Backtracking for complex problem-solving.

• Practical Coding: Adopts a hands-on approach with numerous code snippets, examples, and diagrams, utilizing Python for clear, readable implementation of concepts.

• Search & Sort Mastery: Provides clear, step-by-step coverage of fundamental operations like linear search, binary search, and various efficient sorting methods (Quick, Merge, Heap).

• Applied Solutions: Explores real-world applications of data structures, such as polynomial manipulation via lists and shortest path problems using Dijkstra's algorithm.

• Conceptual Clarity: Establishes a strong basis by thoroughly defining and differentiating between data, information, and Abstract Data Types (ADT) before implementation.

• Student Focused: Includes chapter-end exercises and problems to reinforce learning, making it an ideal, syllabus-aligned guide for academic and professional preparation.

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Author

Sonia Jenifer Rayen

Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Usama Abdur Rahman

Usama Abdur Rahman

P. Kathambari

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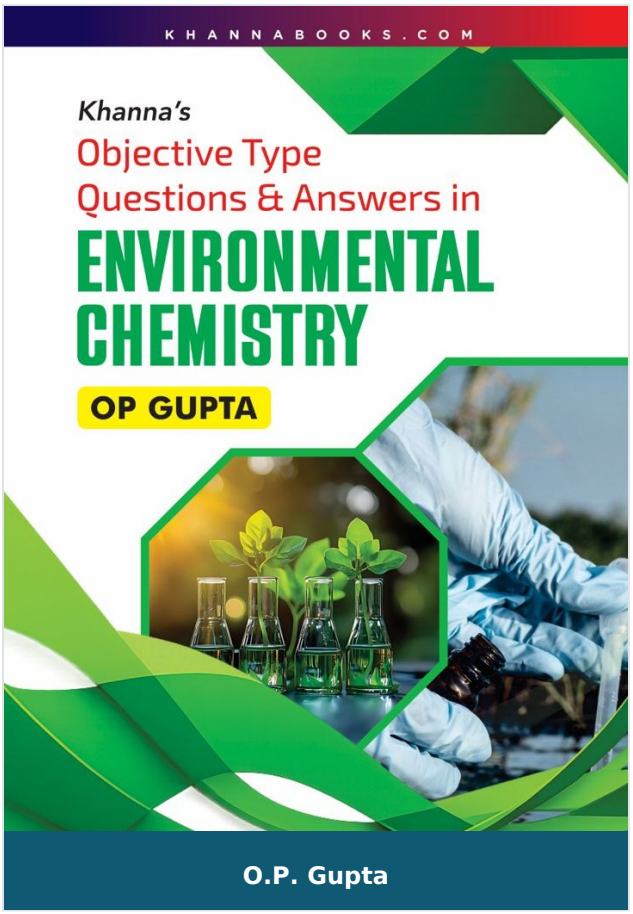

Khanna's Objective Type Questions & Answers in Environmental Chemistry

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Product Description

Khanna's Objective Type Questions & Answers in Environmental Chemistry

Objective Type Questions & Answers in Environmental Chemistry by O.P. Gupta is comprehensive academic resource designed to provide a structured and evaluative approach to the study of environmental sciences. Published by Khanna book Publishing, this 2025 edition serves as a vital tool for students and professionals navigating the complexities of atmospheric, aquatic, and terrestrial chemistry. The book is meticulously divided into three primary sections: a rigorous collection of objective-type questions with answers, detailed short-answers questions that explore fundamental mechanisms, and an extensive glossary of technical terms to ensure conceptual clarity.

The core theme revolves around the chemical phenomena occurring in the environment and the impact of human activities on natural cycles. Its primary purpose is to aid readers in mastering the syllabus of various competitive and professional examinations. The target audience includes undergraduate and postgraduate engineering and science students, as well as candidates preparing for associate membership examinations like AMIE, AMIM, and AMIIChE. By blending theoretical depth with a question-and-answer format, the boof offers immense practical value for exam preparation and professional reference, maintaining a tone that is both intellectually stimulating and accessible.

Salient Features:

- **Examination-Oriented Structure**: The book is strategically organized into objective questions, short-answer explanations, and a glossary, specifically tailored to meet the curriculum requirements of engineering and science degree programs.
- **Atmospheric Chemistry Insights**: It provides in-depth coverage of atmospheric layers, ozone depletion mechanisms, and the chemistry of greenhouse gases like CO, and CHCs to explain global warming.

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- **Aquatic Ecosystem Analysis**: Detailed sections Explore water pollution, eutrophication, and the “oxygen sag curve,” offering readers a clear understanding of how pollutants effect dissolved oxygen and aquatic life.
- **Waste Management Solutions**: the text covers practical methodologies for managing solid and hazardous wastes, including sanitary landfills, composting, and the “Extended producer’s Responsibility” (EPR) for plastic waste.
- **Pollution Control Technologies**: It discusses industrial and domestic pollution mitigation, featuring methods such as cooling towers for thermal pollution and secondary/tertiary treatments for wastewater.
- **Biogeochemical Cycle Expertise**: Readers gain a fundamental understanding of natural processes like the water cycle and carbon cycle, and how human interference leads to environmental degradation.

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- 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.

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