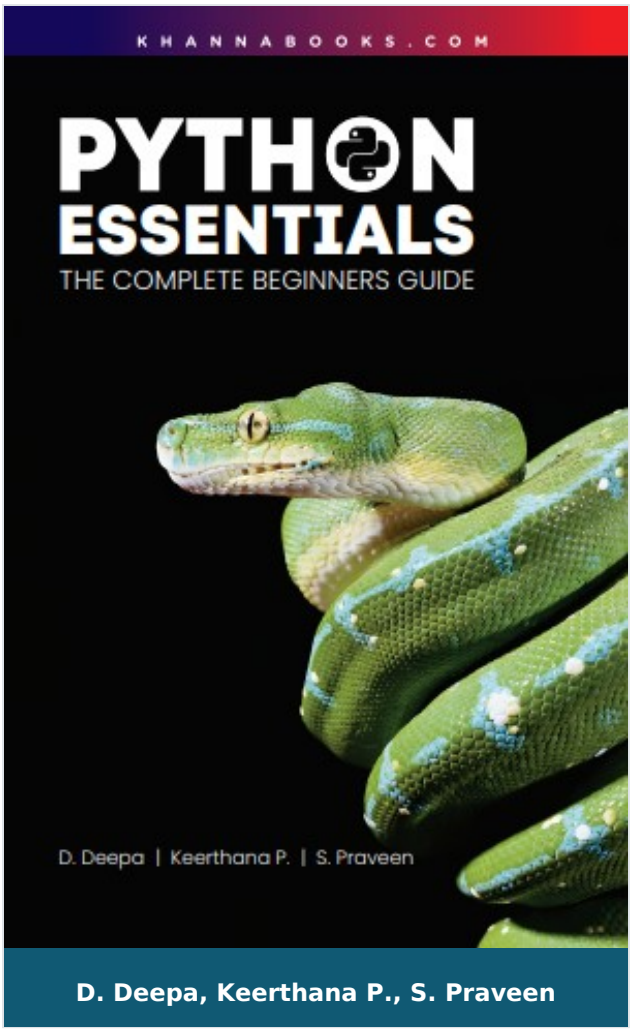

D. Deepa, Keerthana P., S. Praveen

Python Essentials (The Complete beginners Guide)

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Product Description

Python Essentials (The Complete beginners Guide)

Python is the bedrock of modern technology—powering everything from Data Science and Machine Learning to Web Development and System Automation. But where do you start?

Python Essentials: The Complete Beginner's Guide is your definitive, practical roadmap. Built specifically for absolute beginners, this book capitalizes on Python's simple, English-like syntax to ensure a swift and successful journey into coding.

This guide moves beyond theory, equipping you with the fundamental logic and Object-Oriented Programming (OOP) principles needed for professional work. By the time you finish, you won't just know Python; you'll be able to build, debug, and implement real-world solutions. Launch your career or elevate your productivity—the power of Python starts here.

Salient Features:

This guide provides a complete, hands-on path to Python mastery, focusing on modern, practical skills:

- **Core Foundations**: Master the essential building blocks, including variables, expressions, and primary data structures (Lists, Strings, Tuples, Dictionaries).
- **Object-Oriented Programming (OOP)**: Gain a clear understanding of OOP principles (Classes, Objects, Inheritance) to write robust, scalable, and reusable code.
- **GUI and Database Development**: Develop practical tools by learning to build Graphical User Interfaces (GUI) with Tkinter and manage data using the SQLite database library.
- **Debugging and Error Handling**: Acquire crucial development skills like effective Exception Handling and code tracing using Python's built-in debugger, pdb.

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- **Real-World Project Skills**: Learn to manage projects professionally with topics like File Handling, utilizing Virtual Environments, and performing efficient Code Reviews.
- **Versatile Programming**: Understand Python's support for multiple paradigms, including procedural, functional, and object-oriented styles, preparing you for any job role.

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- Object-Oriented Programming Concepts
- Functions, File Handling, and Error Handling
- GUI Programming and Database Handling
- Networking and Hands-on Project

Author

D. Deepa

Deepa, Keerthana P., S. Praveen

Keerthana P.

Deepa, Keerthana P., S. Praveen

S. Praveen

S. Praveen

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S. Mangairkarasi, D. Jerusha, A. Muthulakshmi

Software Robot Design

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Product Description

In a world where robotics is advancing at an unprecedented pace, driven by advancements in artificial intelligence and machine learning, a strong grasp of the foundational tools is essential. SOFTWARE ROBOT DESIGN serves as a comprehensive and indispensable guide to the Robot Operating System (ROS), the versatile, open-source framework that has revolutionized the way intelligent and autonomous robots are designed, programmed, and deployed.

Authored by esteemed scholars—Dr. D. Jerusha, Dr. A. Muthulakshmi, and Dr. S. Mangairkarasi—this book equips readers with the practical and theoretical knowledge necessary to develop robust robotic systems, expertly bridging the gap between theoretical concepts and hands-on implementation. The book adopts a structured approach, meticulously covering the journey from setting up the essential Ubuntu/Linux environment and ROS basics to tackling complex subjects like sensor integration (LIDAR, cameras, IMUs), programming robotic actuators (motors, joints), and performing simulation in Gazebo.

Crucially, it delves into ROS Navigation, providing detailed instruction on robot localization using AMCL, map handling, and path planning using the move_base stack. Designed to be a valuable resource, this text is essential for students aspiring to enter the field, researchers exploring advanced applications, and industry professionals seeking to implement complex ROS-based solutions. The inclusion of practical examples, code snippets in C++ and Python, and dedicated chapters on interfacing ROS with embedded boards like Arduino and Raspberry Pi, ensures the knowledge is academically rigorous and directly aligned with industry demands.

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• ROS Core Architecture: Provides in-depth coverage of fundamental ROS concepts, including Nodes, Topics, Services, and Messages, to establish a solid, modular foundation for distributed robot software development.

• Sensor-Actuator Programming: Offers practical guidance on interfacing and programming essential robotic sensors (LIDAR, IMU) and actuators (motors, joints), enabling precise control over a robot's perception and physical interaction.

• Real-World Navigation: Details the complete ROS Navigation Stack, including global and local path planning, AMCL localization, and costmap configuration for autonomous, obstacle-avoiding movement.

• Practical Coding Examples: Utilizes C++ and Python, the primary languages in robotics, to provide extensive code snippets and exercises, bridging theoretical understanding with hands-on development of ROS packages and nodes.

• Embedded System Interfacing: Includes dedicated chapters on integrating ROS with Arduino and Raspberry Pi, allowing developers to extend the framework to low-level hardware control and cost-effective robotic platforms.

• Simulation and Modeling: Teaches readers how to create robot models using the Unified Robot Description Format (URDF) and how to test and visualize their systems using Gazebo and RViz.

• Linux Environment Setup: Begins with a comprehensive review of Ubuntu Linux and essential Shell Commands, ensuring readers are proficient in the core operating environment required for all ROS development.

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- Programming the Robots Sensors and ROS
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- ROS Programming
- Robotics Projects Using ROS
- ROS Navigation

Author

S. Mangairkarasi

S. Mangairkarasi Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

D. Jerusha

D. Jerusha

A. Muthulakshmi

A. Muthulakshmi

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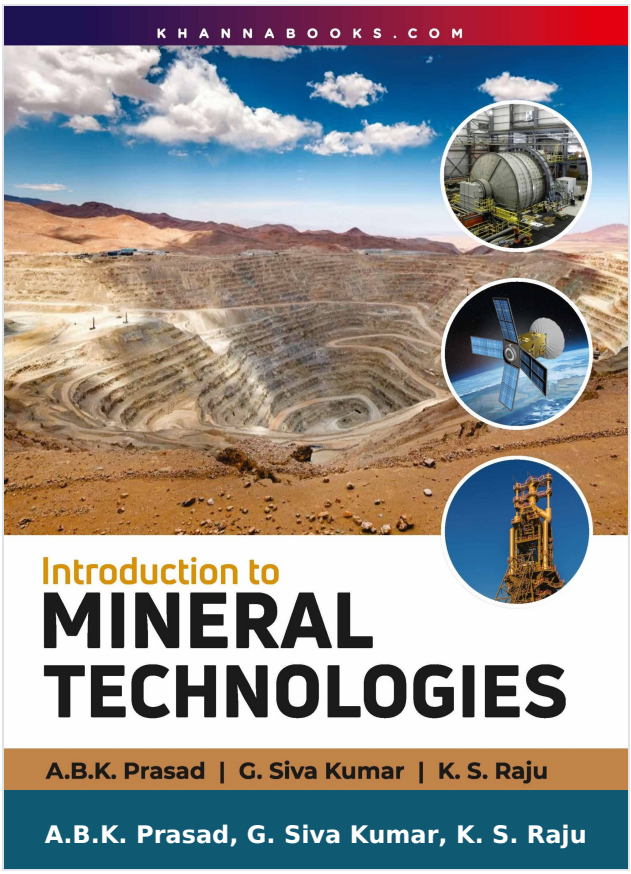

Introduction to Mineral Technologies

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Author

A.B.K. Prasad

A.B.K. Prasad,

G. Siva Kumar

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K. S. Raju

A.B.K. Prasad, G. Siva Kumar, K.S. Raju

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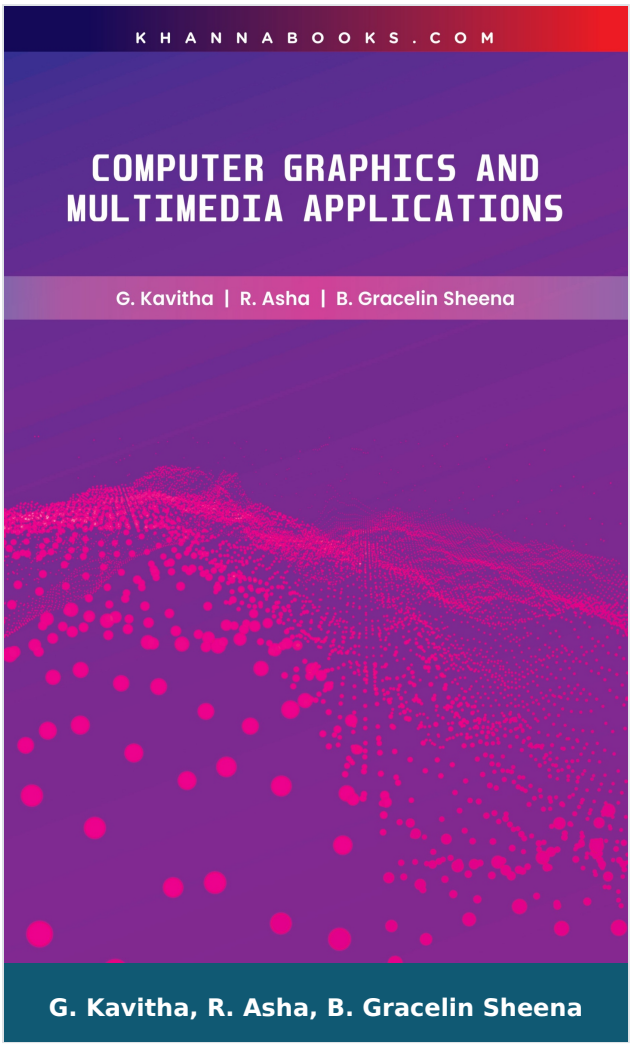

Computer Graphics And Multimedia Applications

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Product Description

Computer Graphics And Multimedia Applications

This comprehensive textbook, Computer Graphics and Multimedia Applications, serves as an essential guide to the theoretical foundations and practical implementations of modern digital visualization and interactive media. Designed to bridge the gap between abstract computer science concepts and tangible real-world applications, the book offers a deep dive into the architecture of graphics systems, from the evolution of display devices—including Cathode Ray Tubes (CRT), Raster Scan, and contemporary Flat Panel Displays like LCD and Plasma—to the mathematical precision required for rendering.

The core theme revolves around mastering the generation and manipulation of visual data, covering crucial Output Primitives like line and circle drawing, with a meticulous comparison of efficient rasterization techniques such as the DDA and Bresenham's algorithms. Beyond 2D, the text meticulously explores advanced three-dimensional concepts, including various projection methods, detailed illumination and shading models (Lambertian, Phong), and sophisticated techniques for visible surface detection and texture mapping.

Crucially, the book seamlessly integrates these graphics principles with an in-depth exploration of Multimedia Applications, detailing core components, compression standards like JPEG and MPEG, audio/video processing, and animation techniques such as tweening and cel animation. This makes it an invaluable resource for undergraduate and postgraduate students in computer science and engineering, as well as professionals and researchers seeking to build foundational and practical expertise in digital design, interactive systems, and digital media development.

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- **Optimized Drawing Algorithms**: Features a comparative analysis of the DDA and Bresenham’s algorithms, emphasizing the use of simple integer arithmetic for high-speed, accurate line and circle rasterization.
- **Display Device Technology**: Explores the mechanics and history of graphical output, covering Cathode Ray Tube (CRT) operation, Refresh CRTs, and modern Flat Panel Displays including Plasma and LCD.
- **Core 3D Visualization**: Provides an in-depth look at three-dimensional concepts such as Parallel and Perspective Projection, equipping the reader with knowledge to transform 3D scenes onto a 2D view plane.
- **Advanced Shading Models**: Detailed sections on rendering realism through illumination, covering techniques like Lambertian and Phong shading, and methods for generating realistic shadow effects on surfaces.
- **Multimedia Compression Standards**: Dedicated unit on digital media technology explaining crucial compression techniques like JPEG and MPEG, including their underlying Discrete Cosine Transform (DCT) and motion-compensation logic.
- **Graphics System Architecture**: Comprehensive overview of the components of a typical graphics system, detailing various input devices (e.g., mouse, trackball, digitizer) and hard-copy devices (printers, plotters).
- **Practical Animation Techniques**: Covers the core principles of creating motion, outlining the process of tweening (in-betweening) to generate fluid animation frames, alongside Cel Animation methods.

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- 2D Transformations and Viewing
- 3D Concepts and Fractal Geometry
- Visible Surface Detection Methods
- Introduction to Multimedia

Author

G. Kavitha

G. Kavitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

R. Asha

R. Asha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

B. Gracelin Sheena

B. Gracelin Sheena Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

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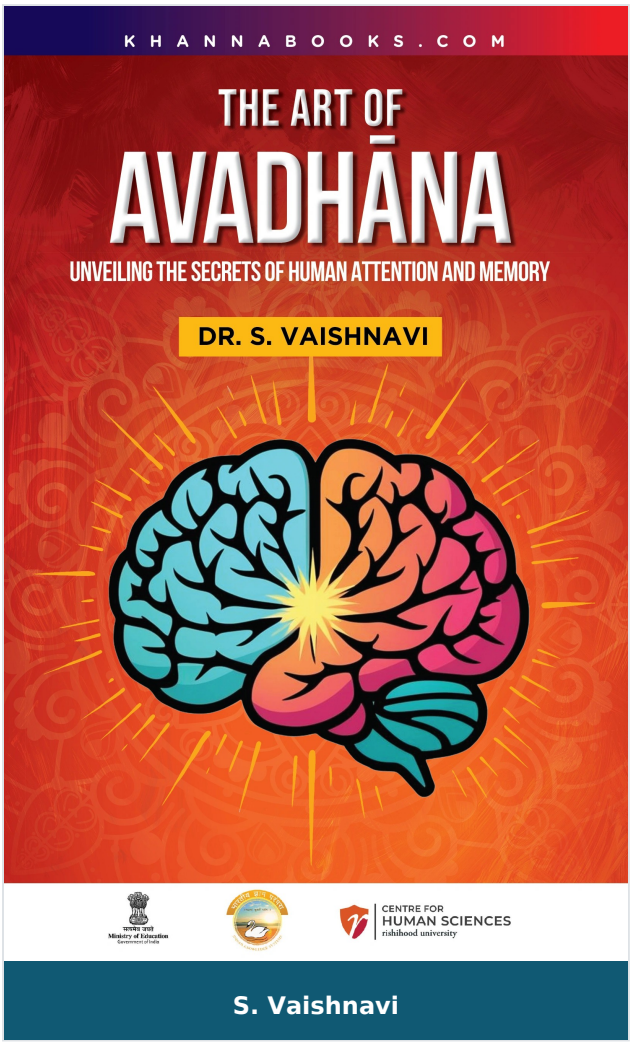

The Art of Avadhanam (Unveiling the Secrets of Human Attention and Memory)

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Product Description

The human mind, with its vast and intricate capabilities, has been a subject of wonder and inquiry across cultures and epochs. Amidst the profound legacy of Indian intellectual traditions, the ancient art of Avadhana shines as a remarkable testament to the extraordinary cognitive potential of the human mind. Rooted in classical disciplines of Sanskrit and other Indian languages, Avadhana exemplifies the harmonization of memory, multitasking, and creativity, encapsulating the extraordinary synergy between linguistic mastery and mental agility. This book delves into the multifaceted dimensions of Avadhana, exploring its relevance as a cognitive phenomenon and its profound implications for understanding human intelligence. The chapters within aim to bridge the traditional practice of Avadhana with contemporary perspectives on memory, focus, and the neuropsychology of learning. By doing so, I hope to illuminate its enduring significance, not only as a literary and cultural treasure but also as a practical framework for enhancing mental faculties in today's world. I was extensively inspired by the Avadhana art form and its remarkable demonstration of the human mind’s responses and functions. Witnessing this art directly was a transformative experience, deepening my appreciation of its cognitive intricacies and its potential applications. The foundation of this work owes much to the tireless efforts of Prof. Sampadananda Mishra, whose vision and leadership under the Indian Knowledge Systems (IKS) initiative have been instrumental in shaping this project. Prof. Mishra has been at the forefront of reviving and promoting the art of Avadhana, organizing three outcome-oriented workshops and training programs at the National Sanskrit University, Tirupati. These programs have not only provided practical insights into the nuances of Avadhana but have also cultivated a new generation of practitioners and researchers dedicated to this extraordinary tradition. I sincerely thank Prof. Mishra, my mentors, colleagues, family, and the custodians of this ancient tradition, whose insights, guidance, and unwavering encouragement have deeply enriched this work. This book is an invitation to rediscover the boundless possibilities of

the human mind and the timeless wisdom embedded in India’s cultural heritage. May it inspire a renewed appreciation of Avadhana and spark meaningful conversations across disciplines.

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- Psychological Elements in Avadhana
- Neuroscientific Perspectives
- Other Skills
- Applications of Avadhana in Modern Context
- Challenges and Future Directions
- Conclusion
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- Glossary

Author

S. Vaishnavi

Dr. S. Vaishnavi is a leading Sanskrit scholar, researcher, and educator dedicate to integrating traditional wisdom with modern learning. Her expertise spans Traditional pedagogies, psychology, and Cognitive Science, Holding a Ph.D. in Sanskrit from national Sanskrit University, Tirupati, alongside degree in Education, Psychology, and other disciplines, she boasts a strong academic foundation. as an Assistant Professor at national Sanskrit University for five Years, Dr. Vaishnavi mentored research scholars and contributed significantly to academia through publications and lectures. She has presented at numerous national and international conferences and actively participated in educational projects like Digital Chitrapadakosha and Swayam Prabha courses. Known for her oratory skills and leadership in education, she bridges the gap between ancient

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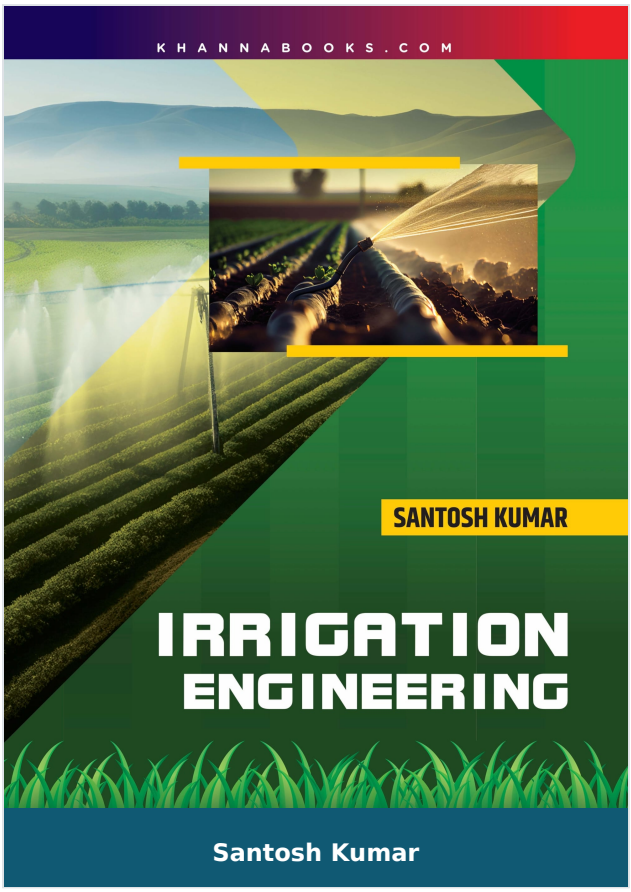

Irrigation Engineering

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Product Description

IRRIGATION ENGINEERING

With rapidly changing climate, importance of irrigation is being realized more and more. Present book is focused on the Engineering part of irrigation. The Book is written in precise form omitting chapters on which exclusive books are available. The book can be useful mostly to undergraduate student pf the civil writing various Competitive examinations. Any suggestion for enhancing the quality of the book is most welcome.

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- Preface
- Foreword
- Irrigation Engineering.
- Water Requirement of crops.
- Basic Irrigation of Crops.
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- Sources of Irrigation Water.
- Canal Irrigation.
- Canal falls.
- Weirs, Barrages and sediment Control.
- Dams.
- Design of Surface and Sub surface Drainage Network for Irrigation Command.
- Canal Outlets or Modules and Irrigation Efficiency.
- Cross Drainage Works.
- Pricing of Irrigation of Water in India.
- Environmental Issues of Irrigation.
- Questions on Irrigation Engineering.
- Appendix

Author

Santosh Kumar

Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional

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Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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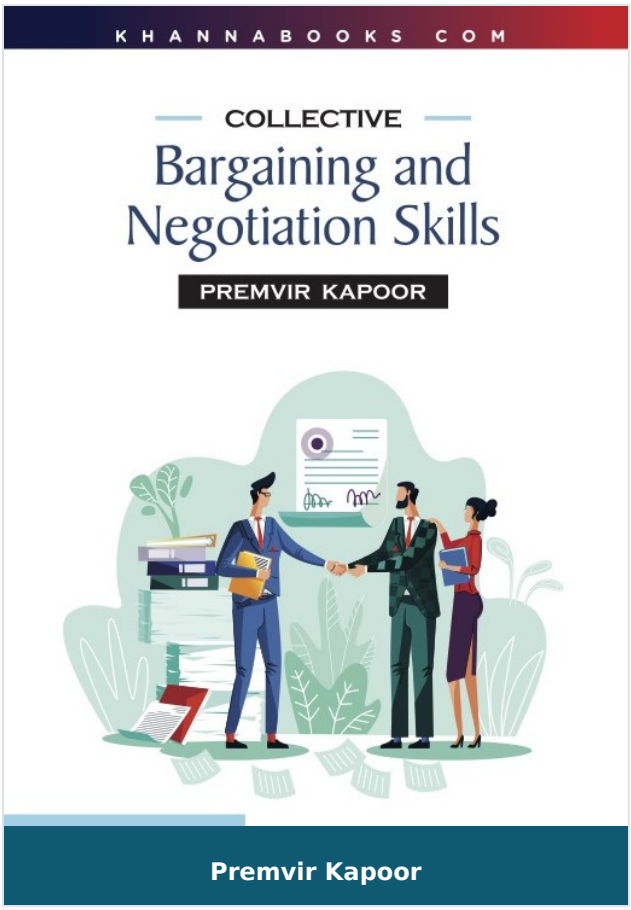

Collective Bargaining And Negotiation Skills

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Product Description

Collective Bargaining And Negotiation Skills

Collective Bargaining and Negotiation Skills has globally become a much discussed issue with economic conditions continuing to be uncertain complexity of business increasing many bold, competitive pressures mounting organizations becoming flatter by each passing day, managers have a tough balancing act to do one side they have a challenge of managing the needs, aspirations and emotions of their people, on the other side they have to negotiate from every stakeholder , the very best for their organization collective bargaining and negotiate are two very important and much needed skills for todays managers. the book test provides the readers a unique resource for continuing self-development. The book aims to fulfill the need of management students and also for the practitioners as a reference manual to help them upgrade their knowledge and skills with the right attitude. Both students in an academic setting as well as management practitioners will benefit from the text.

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- Preface
- An Overview of Collective Bargaining
- Consideration in Collective Bargaining
- Conflict Management
- Issues and Trends in Collective Bargaining
- Negotiation Skills
- Negotiating A Contract
- Developing Negotiation Strategies
- Bibliography

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.

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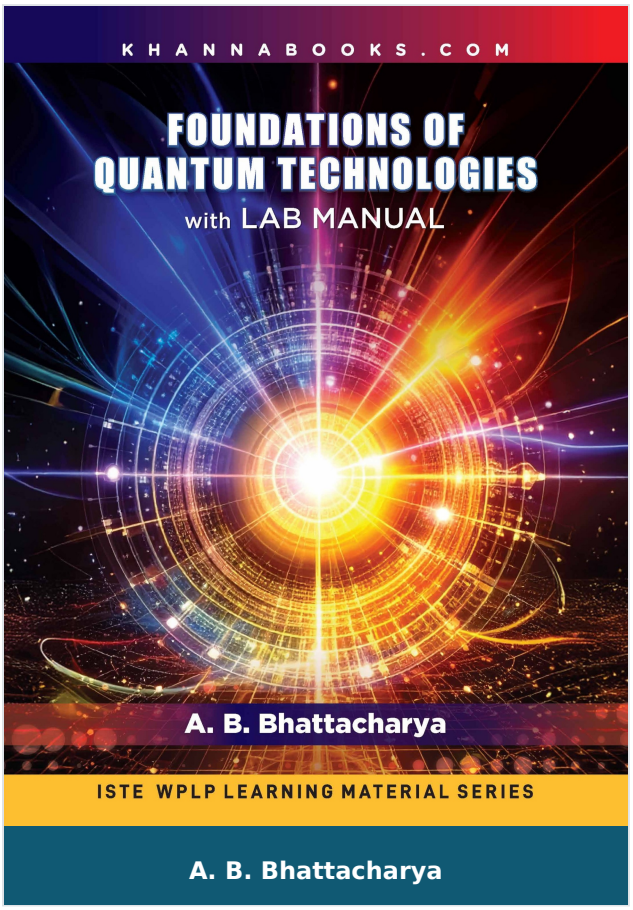

Foundations of Quantum Technology with Lab Manual

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Product Description

Foundations of Quantum Technology with Lab Manual

Explore the Future — Learn the Fundamentals — Master the Tools

Step into the next revolution in science and technology with Foundations of Quantum Technologies (with Lab Manual) — an all-encompassing guide designed for students, educators, and researchers aiming to understand and work with the principles and real-world applications of quantum mechanics.

WHAT'S INSIDE

Part I: Fundamentals of Quantum Mechanics

Begin your journey with a deep dive into the origin and evolution of quantum theory. Understand wave-particle duality, measurement postulates, and the ground-breaking concept of quantum entanglement. Enrich your learning with multiple-choice questions, solved numerical problems, and project ideas at the end of each chapter.

Part II: Core Quantum Technologies

From quantum computing and cryptography to teleportation and metrology, discover how abstract quantum principles power the innovations shaping tomorrow. Learn algorithms like Shor's and Grover's, and explore secure communication via the BB84 Protocol.

Part III: Experimental and Practical Aspects

Get hands-on with quantum hardware platforms like superconducting qubits, trapped ions, and photonic systems. Study experimental realizations from IBM Q, Google Sycamore, and more. It includes detailed insights into quantum gate implementation and optical elements in labs.

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- MCQs and numerical problems with solutions
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Whether you’re a curious beginner or an aspiring quantum researcher, this book offers a robust, intuitive, and experimentally rich learning experience to help you navigate the quantum frontier.

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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

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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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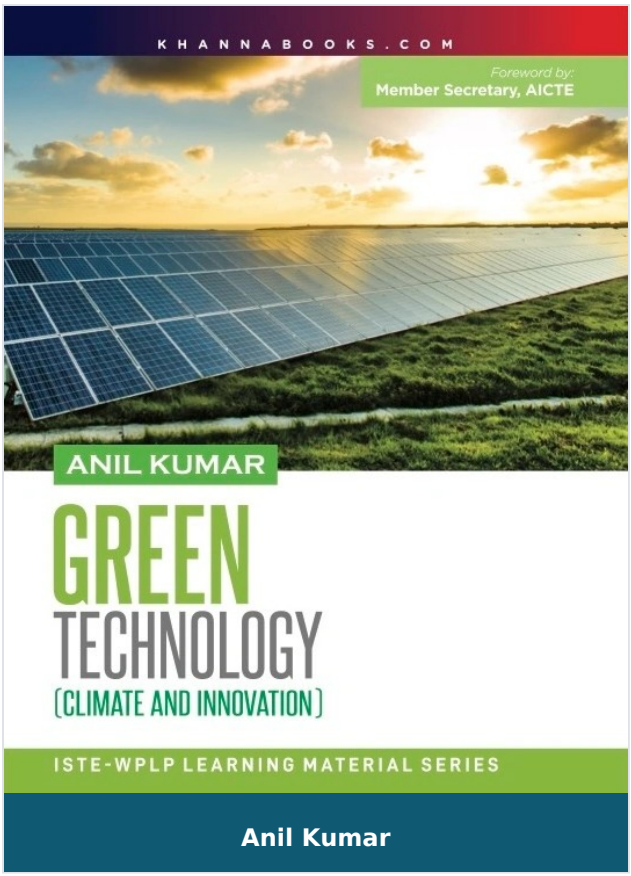

Green Technology (Climate and Innovation)

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Product Description

Green Technology: Climate and Innovation offers a powerful narrative on talking global climate change through innovative and sustainable solutions. Blending scientific insights, global policies, and India’s pioneering efforts, the book is an essential guide for policymakers, academicians, and anyone passionate about the environment.

The book starts with the basics, explaining how Earth’s atmosphere, weather, and climate are interconnected and how human activities disrupt this delicate balance, causing global warming. It explores the impacts of this warming, extreme weather, rising sea levels, and ecological imbalance, while emphasizing the urgent need for mitigation and adaptation strategies.

Complex concepts such as radiating forcing, representative concentration Pathway (RCPs), and shared socioeconomic Pathways (SSPs) are presented in an accessible way, helping readers understand future climate scenarios. The book also highlights international collaborations and key climate agreements, from the Kyoto protocol to the Paris Agreement, including critical takeaways from COP26.

India’s leadership in addressing climate change is a central theme, showcasing its renewable energy drive, energy efficiency initiatives, sustainable urban planning, and afforestation projects. The book further delves into clean technologies transforming sectors like energy, water, agriculture, and transportation.

Tying sustainable to India’s vision of Atmanirbhar Bharat, it underscores how integrating green technologies can drive nation progress. The concluding chapter calls for collective global action to ensure a resilient future for the planet.

Green Technologies: Climate and Innovation is more than a book – it’s a call to action offering knowledge, insights, and inspiration to build a sustainable world.

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- Environmental Sustainability for Atmanirbhar Bharat
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- Mitigation and Vikasit Bharat 2047

Author

Anil Kumar

Prof. Anil Kumar is a distinguished figure in the fields of environmental science, disaster management, and climate change, with an illustrious career spanning academia, government, and industry. With a Doctorate in Environmental Science and an M.E. in Hydrology from IIT Roorkee, he has also earned an M.Sc. in Disaster Mitigation, a Master’s in Ecology & Environmental, and a Gold Medal in Civil Engineering during his

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undergraduate studies. Currently serving as a professor of practice at the National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata- a- Deemed-to-be University under the ministry of Education, Government of India- Prof. Kumar held several prestigious positions. These include Senior Advisor (Environment & Climate Change) at the Bihar State Disaster Management Authority, Director at Adamas University, and State Project Administrator of the World Bank's TEQIP-III initiative for Uttar Pradesh Under the Ministry of Human Resource Development (MHRD). He has also made impactful contributions as a Deputy Director General and Director general (I/C) at the institution of Engineers (India), Deputy Director at the All India Council for Technical Education (AICTE), and Superintending Engineer at the Damodar Valley Corporation. His association with UNESCO's Hydrology Program at IIT Roorkee and governance roles in bodies like the Indian Society for Technical Education (ISTE) and the Solar Energy Society of India reflect his dedication to advancing technical education and environmental sustainability. In recognition of his exceptional contributions to the national technical education system, Prof. Kumar was conferred the ISTE Fellowship in 2024. As an accomplished author, he has penned influential works, including Disaster Management, Water Security and Ecosystem Balance, and Environmental Studies and Disaster Management. His extensive knowledge and expertise firmly establish him as a leading authority in climate change and Disaster risk resilience, inspiring the next generation of professionals in these critical domains.

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Object Oriented Analysis and System Engineering

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Product Description

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

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

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

Salient Features:

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

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for advanced object-oriented programming.

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

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

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

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

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

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

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

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Author

K. Punitha

K. Punitha

R. Ramyabharathi

R. Ramyabharathi

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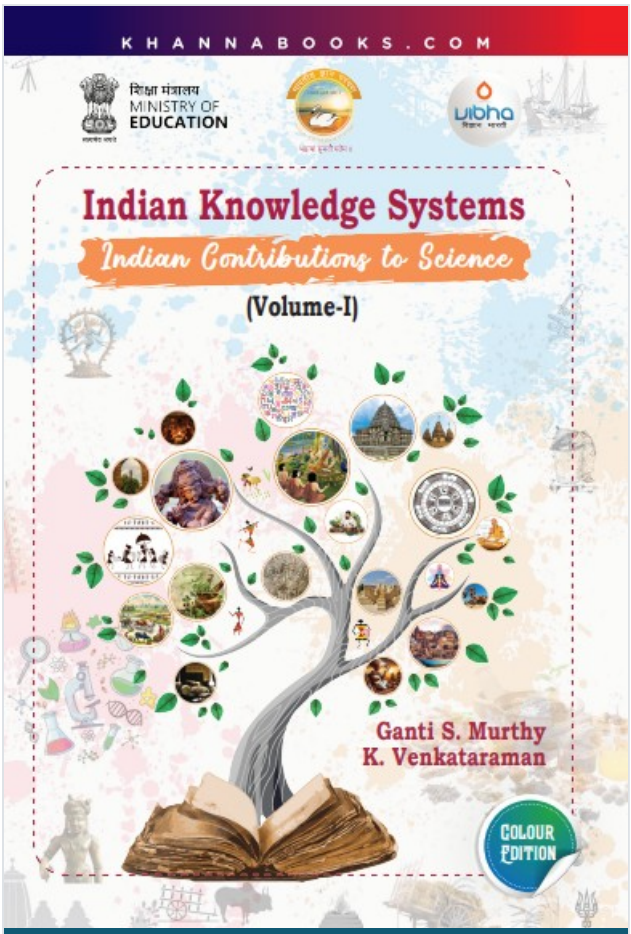

Indian Knowledge Systems (Indian Contributions to Science), Volume-I, Colour Edition

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Product Description

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

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

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- Ayurveda: The Holistic Science of Well-Being
- Traditional Medicinal Plants
- Indian Traditional Agriculture
- About The IKS Division

Author

Ganti S. Murthy

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

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

K. Venkataraman

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

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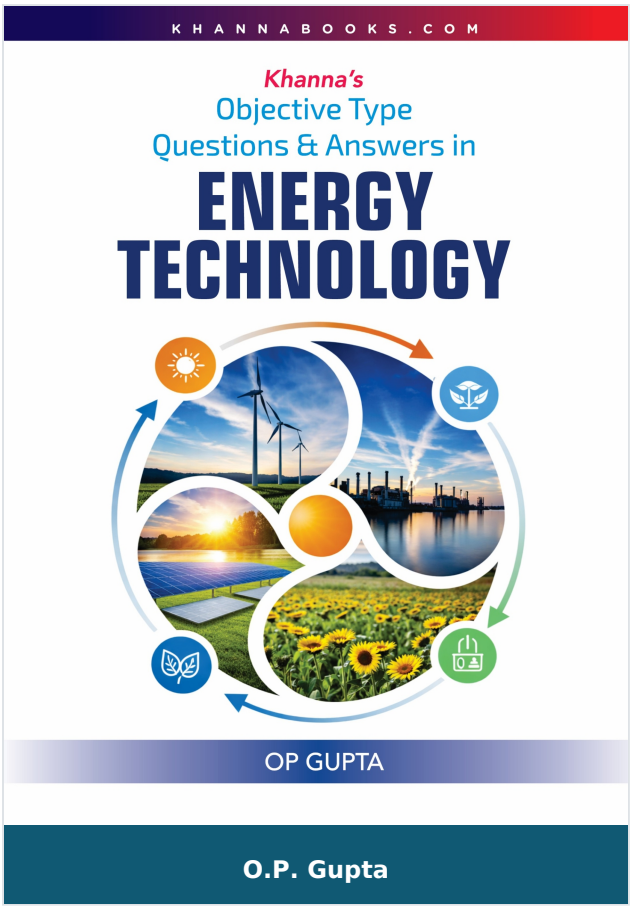

Khanna's Objective Type Questions & Answers in Energy Technology

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Product Description

Objective Type Questions and Answers in Energy Technology is a comprehensive academic resource designed to bridge the gap between theoretical knowledge and practical application in the field of energy. Authored by Om Prakash Gupta, a veteran professional with extensive experience at the Bokaro Steel Plant, the book serves as an essential guide for mastering the complexities of energy systems, fuels, and conservation. Its core theme revolves around providing a structured approach to understanding both conventional and renewable energy technologies through a vast collection of multiple-choice and short-answer questions.

The book's primary purpose is to assist students and professionals in preparing for high-stakes examinations, covering a diverse array of topics from thermal power generation and industrial boilers to cutting-edge renewable sources like solar, wind, and nuclear fusion. It is specifically tailored for diploma, degree, and postgraduate engineering students, as well as candidates appearing for professional membership examinations such as AMIE, AMIIM, and AMIICHE. Additionally, it serves as a valuable reference for aspiring Energy Managers and Auditors preparing for Bureau of Energy Efficiency (BEE) certifications. With its clear explanations and wide-reaching scope, this book offers immense practical value for anyone looking to excel in the energy sector.

Salient Features

• Exhaustive Topic Coverage: The book spans 33 comprehensive chapters, covering everything from basic energy scenarios and combustion technology to advanced topics like Magneto Hydro Dynamic (MHD) generators.

• Dual-Section Format: The content is strategically divided into Section A, featuring extensive objective-type questions for rapid self-assessment, and Section B, providing detailed short-answer responses.

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• Professional Exam Alignment: Content is specifically curated to meet the syllabi requirements of competitive engineering exams and professional certifications like the BEE Energy Auditor examination.

• Renewable Energy Focus: Detailed sections are dedicated to the latest developments in solar, wind, ocean, geothermal, and biomass energy, reflecting modern shifts toward sustainability.

• Industrial Utility Insights: Includes practical knowledge on industrial components such as furnaces, refractories, compressed air systems, and cooling towers, essential for field professionals.

• Energy Audit Emphasis: Provides specialized questions on energy conservation and auditing, helping readers understand the regulatory and practical frameworks of energy management.

• Practical Problem Solving: Features worked-out calculations for critical metrics like specific energy consumption and boiler efficiency to enhance quantitative skills.

• Environmental Impact Integration: Addresses the critical relationship between energy use and the environment, including topics on global warming, greenhouse gases, and emission trading.

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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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