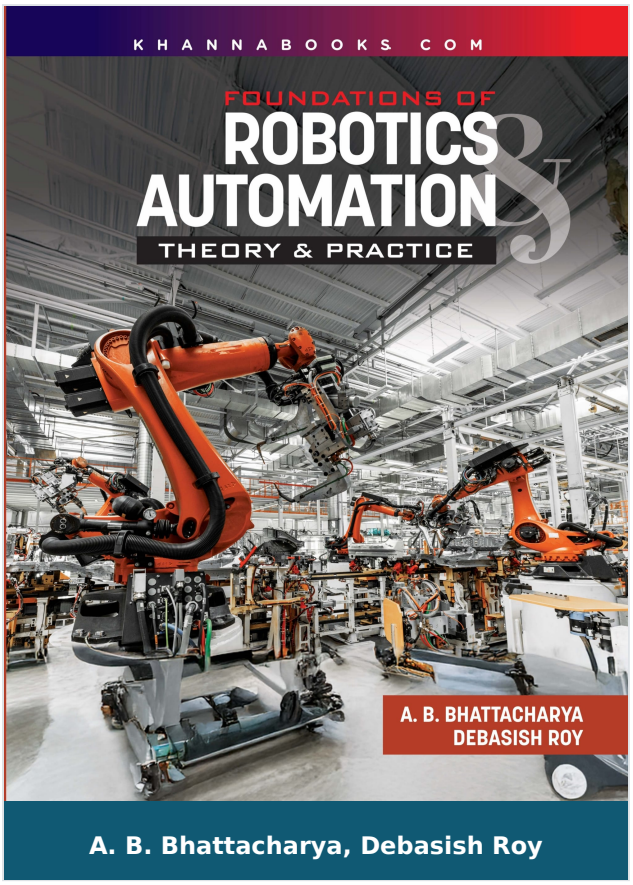

Foundations of Robotics & Automation (Theory & Practice)

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Product Description

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- Differential Equations in Modeling and Analyzing Various Aspects of Robotics and Automation.
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- Control Theory with the Study of controlling the behavior of Dynamics Systems.
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- Graph Theory in Solving Real-World Problems Across Different Domains.
- Numerical Methods to obtain Practical Solutions by using Computational Algorithms and Techniques.
- Signal Processing for analyzing Vast Data Generated in Digital World.
- Optimization Process of finding the Best Possible Solution from a Set of Available Option.
- Computer Vision as a Field of Artificial Intelligence.
- Quantum Computing a Applied to Robotics and Automation.

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

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served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

Debasish Roy

Dr. Debasish Roy is a highly accomplished and motivated professional with a robust academic background in Information Technology, including an MCA, MBA M. Tech, and PhD. He was currently the Director General(Railways) at a top-level position in the Indian Police Service (IPS). He received the Indian Police Medal and President's Police Medal in 2000 and 2010. He is well known for pioneering contributions in land mobile radio systems. He is highly recognized for spearheading strategic planning and execution of security measures for the railways network, implementing innovative technologies to enhance railway security and counteract emerging day-to-day operations efficiently. He

has provided expert guidance on implementing land mobile radio system for public safety agencies and conducted groundbreaking research in cryptanalysis, leading to development of advanced techniques for enhancing cyber security. He successfully led a team in designing and implementing secure communication protocols for land mobile radio systems, ensuring robust and encrypted communication. He has published numerous research papers in reputed conferences. He mentored and guided students at the postgraduate and doctoral levels. He has a proven track record of effective leadership and team management, besides all his strategies planning and execution in high-stakes environments. He received many honors and awards for his outstanding contributions to the field and was recognized for exceptional leadership and innovation in technology-driven security initiatives. He completed an Executive Program in Quantum Company and Machine Learning from IIT Delhi in 2023. He participated in the Workshop on Machine Learning for Cryptology (ML4Crypto 2023) at ISI, Kolkata from November 8-10, 2023, organized by SAG, DRDO. His recent paper on " Iterative Quantum Algorithm for Linear System Solving" has been accepted at the International Conference SAI, Computing, 2024 London, organized by Microsoft Corporation.

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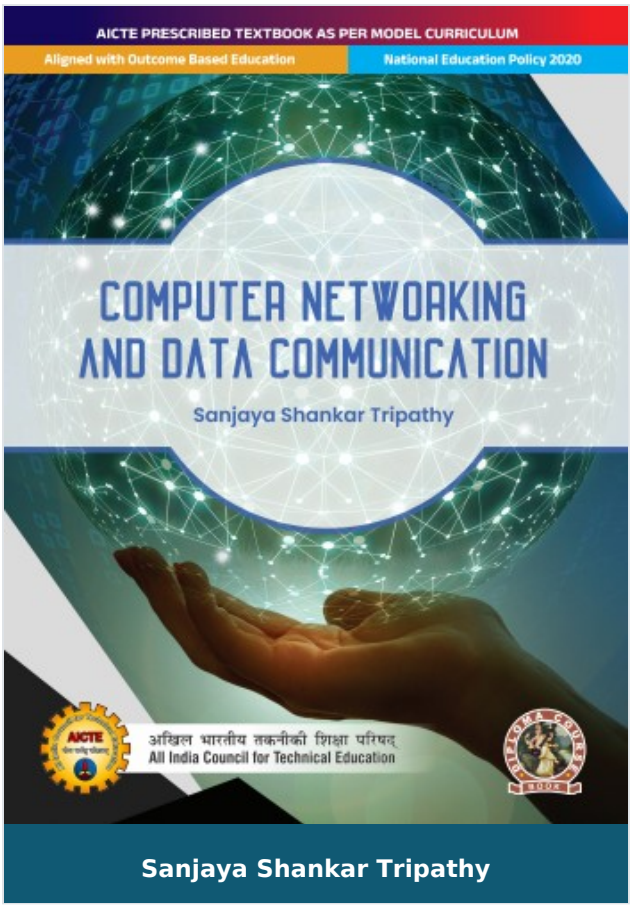

Computer Networking and Data Communication

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Product Description

Computer Networking and Data Communication

This book serves as an essential resource for students and professionals in Data communication and computer networking. Starting with protocols, the book gradually introduces the fundamental concepts of data communications, digital and analog transmission technology. Flow control, error control, routing and transmission control are presented as per the TCP-IP protocol architecture. It also gives a brief introduction to wireless communication. The subject matters are presented with required diagrams and suitable examples. The main concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book is aligned with Unit outcomes, Course Outcome and program Outcomes.
- A blend of student and teacher-centric materials, presented as per the bottom-up approach of TCP-IP protocol.
- The book is enriched with example-based discussion for proper understanding of the related topic.
- Extensive use of figures and tables enhance understanding of the topics and the concepts.
- QR codes are given in the know more section in each chapter to explore beyond the syllabus
- A variety of exercise including multiple choice questions, short, long questions and numerical problems are provided at the end of each chapter.
- References are provided at the end of each chapter.

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- Digital & Analog Transmission
- Wireless Communication
- Data Link Layer Technologies
- Network Layer Technologies
- Transmission Media & Transmission Control Protocol
- References For Further Learning
- CO And PO Attainment Table
- Index

Author

Sanjaya Shankar Tripathy

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Dr. Sanjaya Shankar Tripathy Assistant Professor Dept. of Electronics and Communication Engineering (ECE) Birla Institute of Technology Mesra, Ranchi

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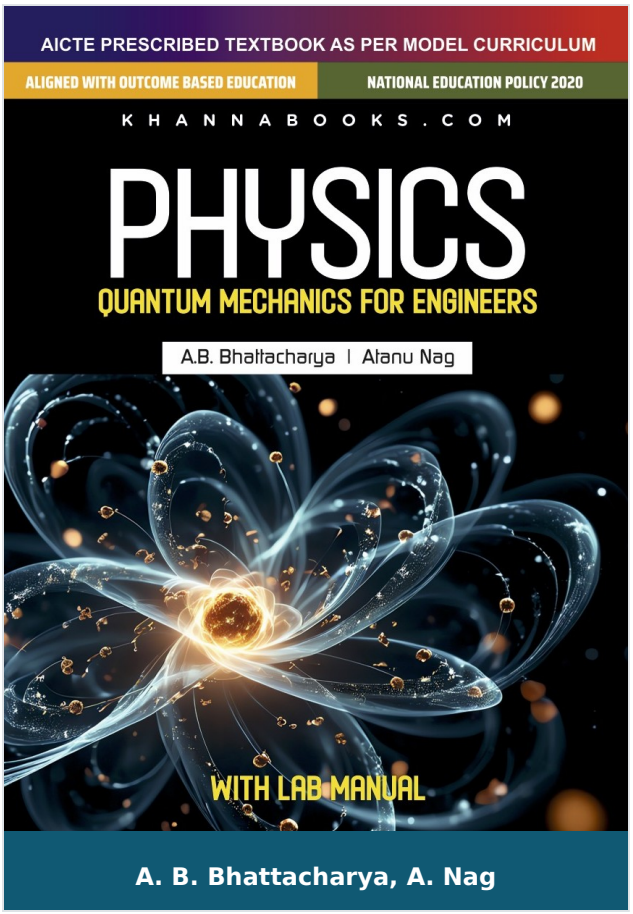

Physics (Quantum Mechanics for Engineers) With Lab Manual

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Product Description

For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes:

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- Basic Formalism of Quantum Mechanics
- Mathematical Preliminaries for quantum mechanics
- Applications of Schrodinger equation
- Introduction to Molecular Bonding
- Introduction to Solids
- Appendices
- Annexures
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- CO and PO Attainment Table

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

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International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

A. Nag

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

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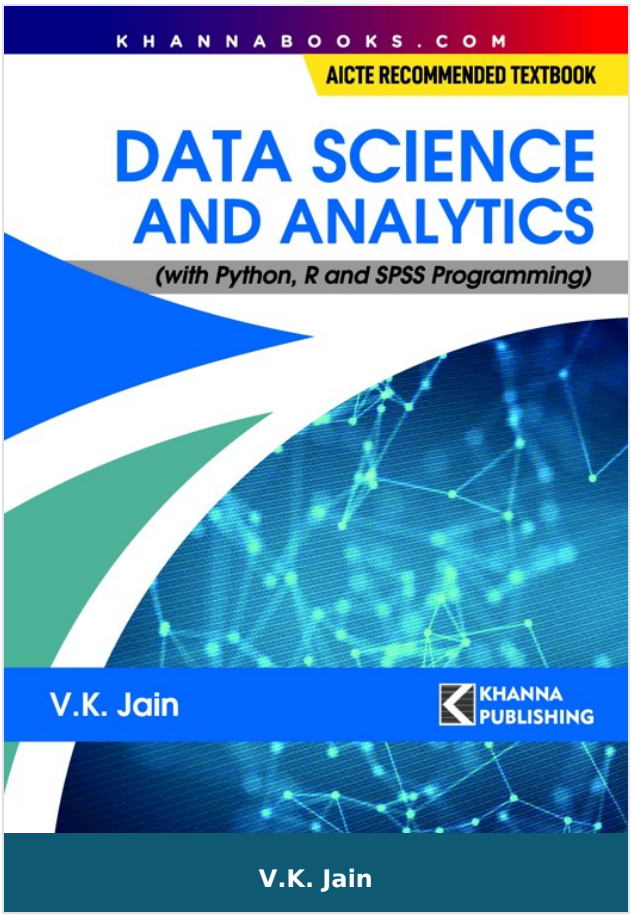

Data Science and Analytics (with Python, R and SPSS Programming)

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Product Description

The overall goal of the book is to provide a broad understanding of big data, data science and analytics in an integrated manner.

While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Computer science has the greatest drawback of non-standardization of the stuff, not only of its software but in courseware also. A vast amount of curriculum exists at different levels of various Universities. As such I have tried to include all desired courseware from the syllabi for different levels.

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- Unit-1: Introduction to Data Science
- Unit-2: Data Management Using 1BM SPSS
- Unit-3: Data Analysis Using R Programming Language
- Unit-4: Data Visualisation
- Unit-5: Application of Data Science, Technology for Visualisation and Bokeh
- Unit-6: Recent Trends in Data Science
- Annexure-1: R Programming Language & Software Environment for Statistical Analysis and Graphics

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that

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time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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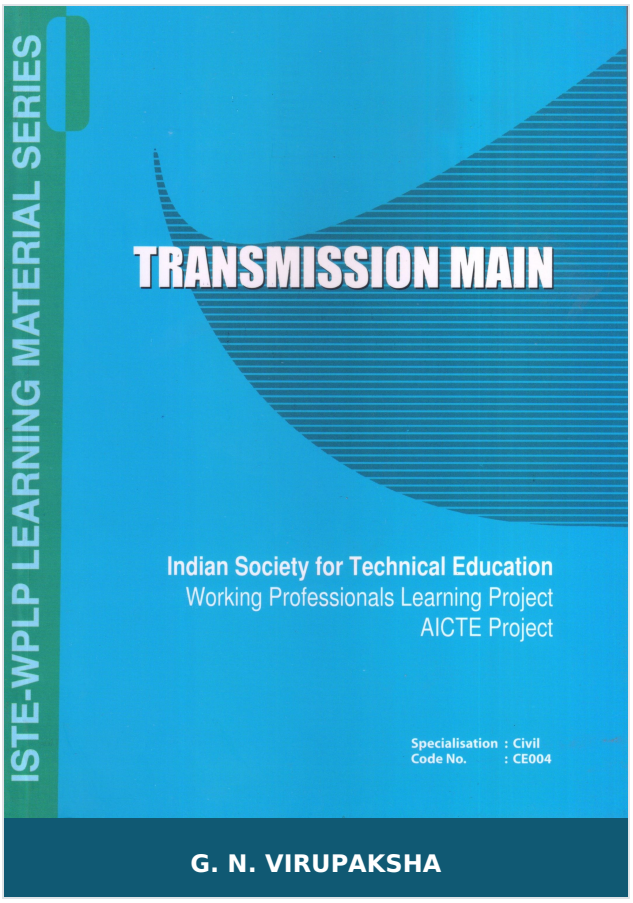

Transmission Main

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Product Description

Water is essential commodity for the survival of life. Providing safe drinking water of adequate quantity for this purpose. Water supply system involves transmission of water from source to area of consumption safely. Transmission Main account for the appreciable part of capital outlay of water system and hence careful consideration of techno-economics is called for while designing the transmission main.

This learning material "Transmission Main" clearly mentions selections of pipe material, advantages and disadvantages, optimization of size of main, design criteria and need for protection of pipeline against transient pressure and also procedure for laying and maintenance of pipeline,.

This learning material is useful for practicing engineers, administrators and any other authority that are responsible for water supply and irrigation activities.

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- Surge Protection System.
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- Laying of Pipes.
- maintenance
- of Transmission system.

Author

G. N. VIRUPAKSHA

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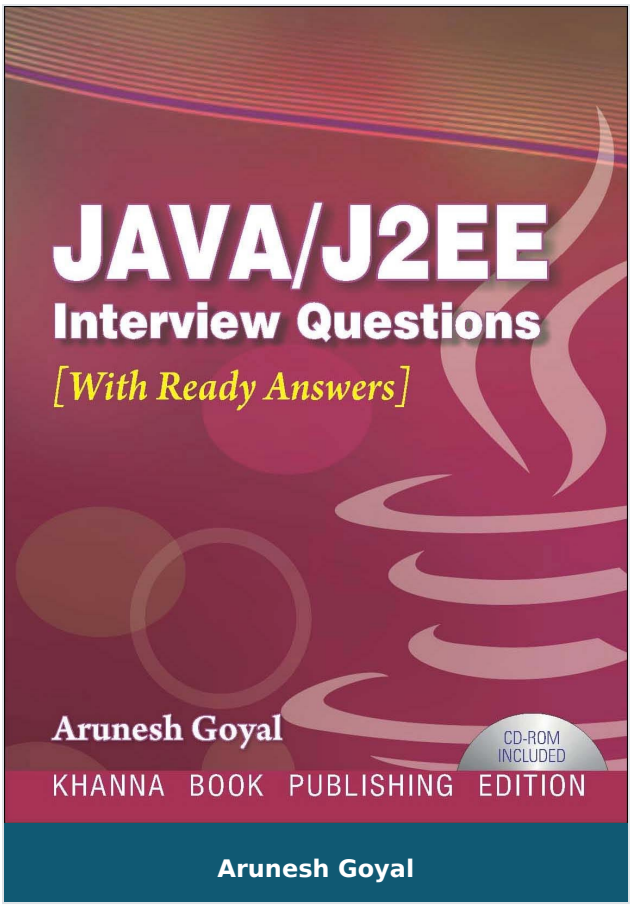

Interview Questions With JAVA/J2EE

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Product Description

A total of six hundred relevant Interview Question have been included which augurs well for you in your pre-interview preparation. The "Project Management" Chapter discusses organizational behavior in its various facets such as motivation, leadership, ego less programming and stress. The " The software Development process" chapter makes you enact the roles of the various people involved in the SDLC such as the system analyst, the system designer.. Besides, it has many a multiple choice problems which you would very well enjoy trying your hand at. One hundred "Bonus Interview Question on C# ,Net" have been included and the various similarities and difference between C# and Java have been taken into account. The appendix contains the essence of the JAVA API package which includes fifty-nine libraries in all. The acronyms and the glossary sections are for your ready reference. They have been so designed as to enable you to understand much of the computer jargon associated not only with the Java environment, but in general also, in a big way. The accompanying CD-ROM includes some nerve raking software, sample code and other interview preparatory material.

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- UML
- Project Management
- The Software Development Process
- Bonus Interview Questions On C#, .Net
- Appendix : The Java API Package
- Acronyms
- Glossary
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Author

Arunesh Goyal

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Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10 years. This underlines his extensive programming and systems development experience. Besides, he has worked on two projects related to intelligent databases with Comtech International Ltd., Noida. and the Times of India, New Delhi, respectively.

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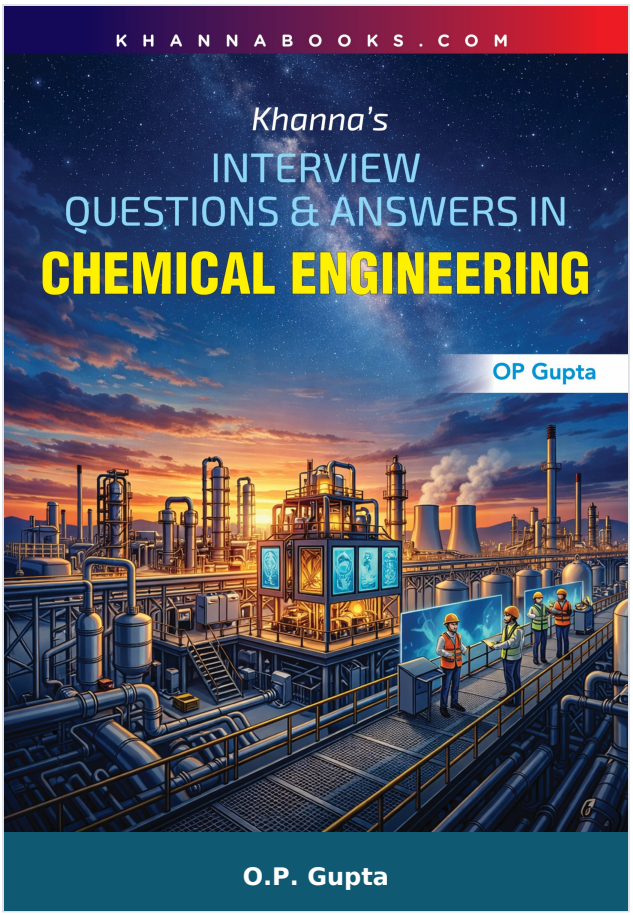

Khanna's Interview Questions & Answers in Chemical Engineering

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Product Description

Interview Questions and Answers in Chemical Engineering by O.P. Gupta is a comprehensive, meticulously structured resource designed to bridge the gap between academic learning and professional recruitment. This first-edition volume provides a deep dive into the core pillars of the field, covering essential topics such as Fluid Mechanics, Heat Transfer, Mass Transfer, and Instrumentation. By presenting technical concepts in a clear question-and-answer format, the book helps readers master complex theories while simultaneously preparing them for the practical rigors of the industry.

The book is tailored for a wide-ranging audience, including diploma, degree (B. Tech.), and postgraduate (M. Tech.) students, as well as PhD candidates defending their theses. It also serves as an indispensable guide for professionals preparing for associate membership examinations like AMIE and AMIIChE, and for those appearing for recruitment interviews at premier public and private sector organizations like BARC, SAIL, and IOC. With its focus on both foundational principles and real-world applications—ranging from valve operations to advanced membrane separations—this book acts as a vital tool for anyone looking to excel in the chemical engineering profession.

Salient Features

• Core Technical Mastery: Comprehensive coverage of fundamental subjects like fluid mechanics, heat transfer, and thermodynamics.

• Interview-Ready Format: Concepts presented in a concise question-and-answer style, ideal for viva-voce and recruitment preparation.

• Industrial Equipment Insights: Functional details on hardware like orifice meters, venturi scrubbers, and various heat exchangers.

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• Competitive Exam Alignment: Content tailored to the requirements of GATE, AMIE, and PSU recruitment exams.

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- MISCELLANEOUS QUESTIONS

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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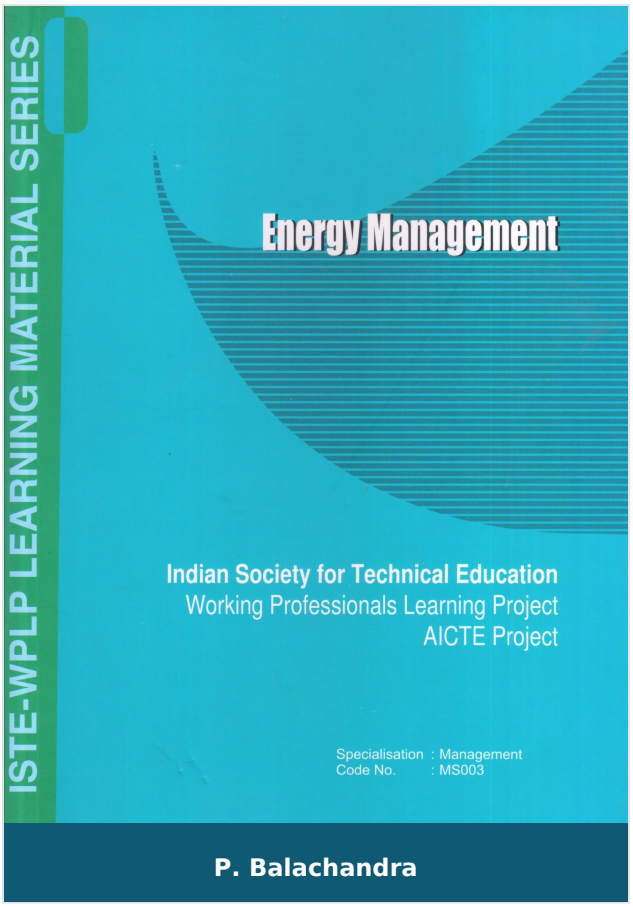

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Supply and utilization of energy, forms an integral part of economic development of a country. Further, energy interacts with all aspects of social and economic development, including livelihoods, water, agriculture, industry, environment, population, health education, job creation and gender- related issues. These energy interactions have both positive and negative implications for every sector of the economy as well as for the environment. The objective of the author, is to introduce the prospective readers of this book to the fascinating world of energy and how it interacts with many other systems which are closely connected to the human system. This is done with a focus on India.

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- Energy and Sustainable Development.
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- Renewable Energy.
- Energy Modeling and Integrated Resource Planning.
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Author

P. Balachandra

Dr. P. Balachandra is a member of the Faculty, at the Department of Management Studies and Associate Faculty at the Centre for Sustainable Technologies Indian Institute of Science (IISc), Bangalore, India. In addition, he served as a visiting expert at the Harvard Kennedy School, Harvard University, USA; UNDP-Regional Centre, Bangkok; Asian Institute of Technology, Bangkok and Indira Gandhi Institute of Development Research,

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Mumbai. He received his ph.D. in Energy and Enviroment form the IISc in 2000. He has about 22 years of Research and Teaching experience in the field of energy, environment and technology management. His Research expertise includes energy & environmental economics and policy, sustainable development, climate change mitigation, technology transfer and diffusion, renewable energy and sustainable mobility. His Research is focused predominantly on policy analysis, technology assessments, economic analyses, modeling and planning, arriving at solutions relevant for developing countries like India and truing from the perspective of sustainable development. He has investigated about 20 research and consultancy projects. Prominent Organizations, for which he has carried out Consultancy/Research assignments, are UNDP, European Commission, World Bank, SIDA AIT, TERI, IGIDR and various ministries of Government of India and private sector organizations. He ha co-authored three books and published about 70 papers in various iInternational and National journals, conferences and edited books.

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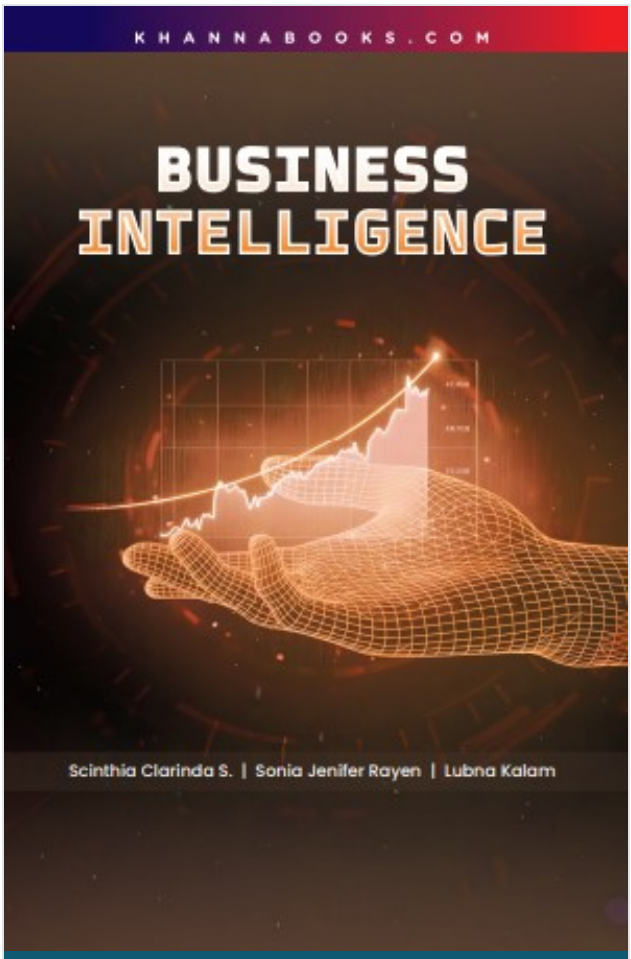

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Business Intelligence

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This book, BUSINESS INTELLIGENCE, stands as an essential and comprehensive resource for professionals and students seeking to master the principles of data-driven decision-making. The core theme is the systematic use of technology, processes, and tools to convert an organization's raw data assets into actionable insights that drive improved operational performance and strategic foresight. It offers a rigorous, yet accessible, exploration of key BI concepts, covering the distinction between Data, Information, and Intelligence and the fundamental components of BI Architecture, including Data Warehousing, OLAP, and the crucial ETL process.

The practical value of this text is demonstrated through its detailed coverage of the BI Life Cycle, the implementation challenges organizations face, and the necessity of developing a strategic BI Roadmap. It uniquely integrates advanced topics like predictive analytics and the role of organizational culture in BI success. Designed for learners, practitioners, and researchers—from casual business users to professional data analysts—this book is an indispensable asset for anyone committed to leveraging data for business growth and a competitive advantage.

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- Business Intelligence Issues and Challenges
- Business Intelligence Strategy and Roadmap

Author

Scinthia Clarinda S.

Scinthia Clarinda S., Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology Lubna Kalam, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Sonia Jenifer Rayen

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

Lubna Kalam

Lubna Kalam, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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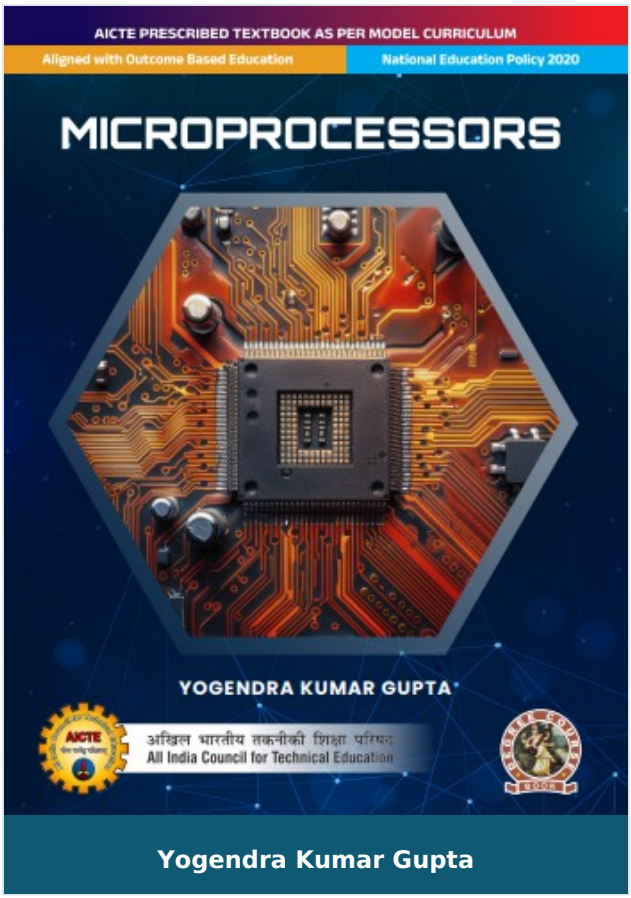

Microprocessors

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Product Description

Microprocessors

This book contains topics of Microprocessors for the Vth semester students of Undergraduate degree in Electrical Engineering strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. This book comprises of five units covering topics on Fundamentals of Microprocessors, the 8051 Architecture, Instruction set and Programming, I/O Interfacing, Sensor Interfacing.

Salient features:

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- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides large number of examples, exercises, information beyond the unit coverage, QR code for E-Resources and references.
- Student and teacher centric subject materials included in book with balanced and chronological matter.
- Figures and tables inserted to improve clarity of topics.
- A ‘Know More’ section in each unit extends the learning beyond the syllabus.
- MCQs, short-answer type, long-answer type, numerical and practical questions added for the units to help in self-checking of knowledge.
- Answers have been provided for the MCQs and numerical questions. Hints have been given for solving the practical problems.

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Author

Yogendra Kumar Gupta

Dr. Yogendra Kumar Gupta Associate Professor, Dept. of Computer Science & Engineering, Swami Keshvanand Institute of Technology Management & Gramothan

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