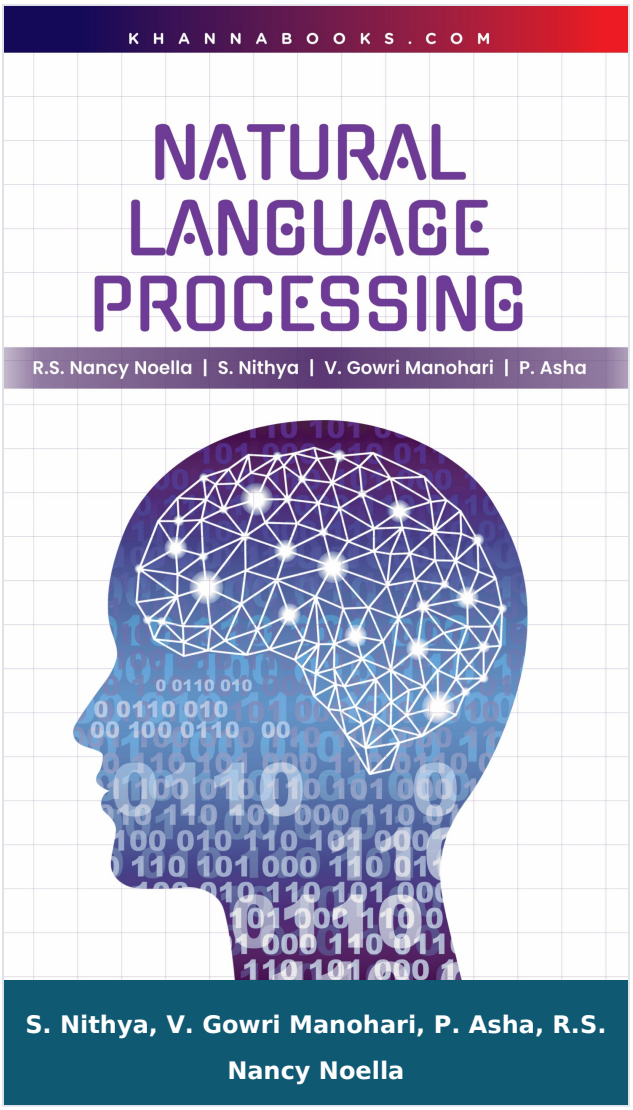


Natural Language Processing

Author :	S. Nithya, V. Gowri Manohari, P. Asha, R.S. Nancy Noella
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Product Description

This comprehensive text is an essential guide to the rapidly evolving field of Natural Language Processing (NLP), which sits at the dynamic intersection of linguistics, computer science, and artificial intelligence. The core theme is mastering the ability for computers to understand, interpret, and generate human language, a capability that powers modern AI applications from virtual assistants and machine translation to sentiment analysis and chatbots.

Designed to be a balanced and holistic resource, the book successfully bridges the critical gap between theoretical foundations and practical implementation. It systematically covers fundamental concepts like text preprocessing, tokenization, and language modeling, ensuring readers build a strong conceptual base. The practical value lies in its commitment to demystifying complex concepts, providing readers with the necessary tools to build, optimize, and deploy robust NLP systems effectively.

The text offers in-depth coverage of state-of-the-art architectures like transformers, BERT, and GPT, complemented by practical, hands-on examples using industry-standard frameworks such as PyTorch, TensorFlow, and Hugging Face. Furthermore, it extensively covers the entire phases of NLP—from lexical and syntactic processing to semantic interpretation and discourse analysis—ensuring a thorough understanding of the whole pipeline. The primary audience for this text is students seeking foundational knowledge, researchers looking to refine their expertise, and practitioners aiming to implement real-world NLP solutions. It is an indispensable resource for anyone dedicated to exploring and innovating in this exciting and interdisciplinary domain.

Salient Features:

• Foundational Concepts: Provides clear explanations of core NLP techniques, including tokenization, embedding, and language modeling, covering the phases of NLP from

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lexical to pragmatic analysis.

• State-of-the-Art Models: Includes in-depth coverage of current advancements, exploring transformer architectures, BERT, GPT, and other cutting-edge, highly efficient models for language tasks.

• Hands-on Implementation: Offers practical, hands-on examples using popular industry frameworks such as PyTorch, TensorFlow, and the Hugging Face library for real-world development.

• Syntactic-Semantic Pipeline: Explores the key NLP phases of syntactic parsing and semantic interpretation, including grammar, ambiguity resolution, and the use of Logical Forms.

• Context and Discourse: Dedicated coverage of World Knowledge and Discourse Structure, including knowledge representation techniques and the analysis of coherence and reference resolution.

• Real-World Applications: Features case studies and projects demonstrating the practical deployment of NLP in industry, covering applications like machine translation and sentiment analysis.

• Parsing & Grammar: Delves into advanced parsing techniques, including Probabilistic Parsing, Feature Structures, Augmented Grammars, and the Symbolic Approach to computation.

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- Semantic Interpretation
- Context and World Knowledge
- Natural Language Discourse Structure

Author

S. Nithya

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

V. Gowri Manohari

V. Gowri Manohari Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

P. Asha

P. Asha

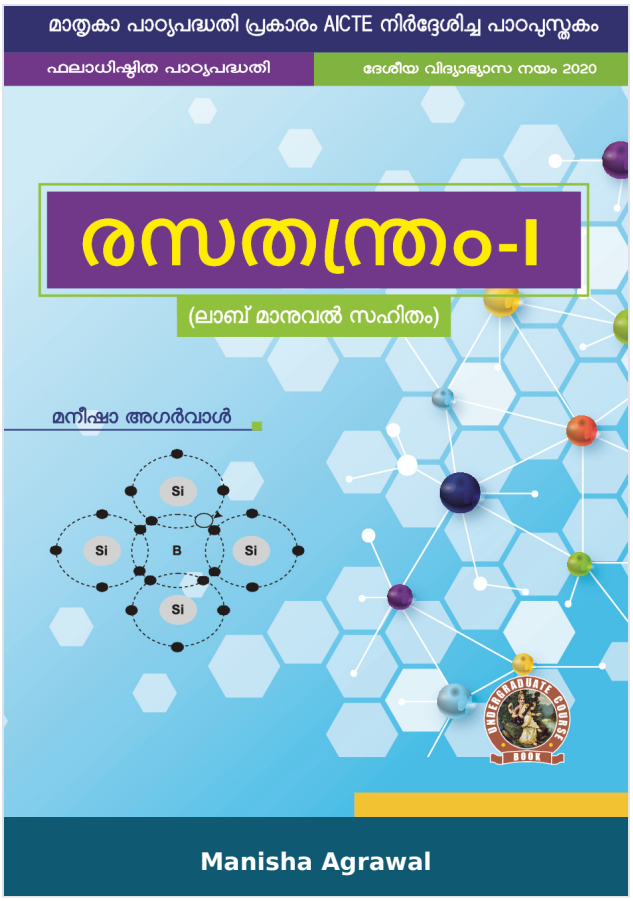
R.S. Nancy Noella

Nancy Noella R. S. S. Nithya Gowri Manohari V P. Asha

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Chemistry-I (with Lab Manual)

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Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc. Students and teacher centric subject materials included in book with balanced and chronological manner. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics. Short questions, objective questions and long answer exercises are given for practice of students after every chapter. Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Intermolecular Forces and Potential Energy Surfaces.
- Use of Free. Energy in Chemical Equilibria
- Periodic Properties.
- Stereochemistry and Organic Reactions.
- Organic Reactions Synthesis of Drug Molecules.
- Annexure.
- Appendices.

Author

Manisha Agrawal

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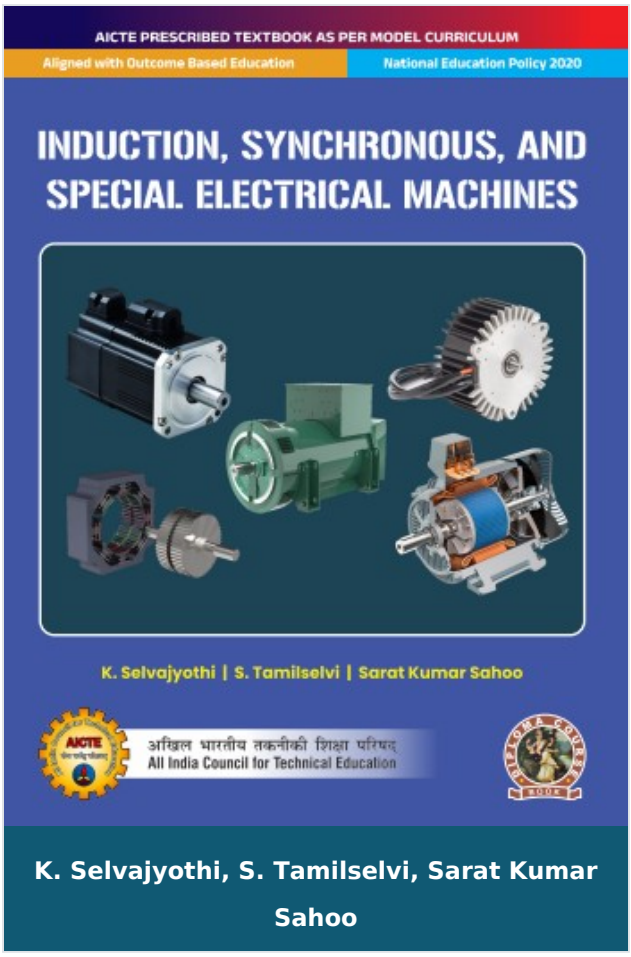
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Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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Induction, Synchronous, and Special Electrical Machines

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Product Description

Induction, Synchronous, and Special Electrical Machines

This book, “induction, Synchronous, and special Electrical Machines” is crafted with a primary focus on the comprehensive understanding of electrical machines, catering to the needs of diploma students in electrical and electronics engineering. Whether you are a student embarking on your academic journey, an instructor guiding aspiring minds, or a practitioner in the field, this book aims to be your reliable companion.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- 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 lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps

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Author

K. Selvajyothi

Dr. K. Selvajyothi Associate Professor, IIITDM Kancheepuram, Chennai Dr.

S. Tamilselvi

Dr. S. Tamilselvi Associate Professor, Sri Sivasubramaniya Nadar College of Engineering, Chennai

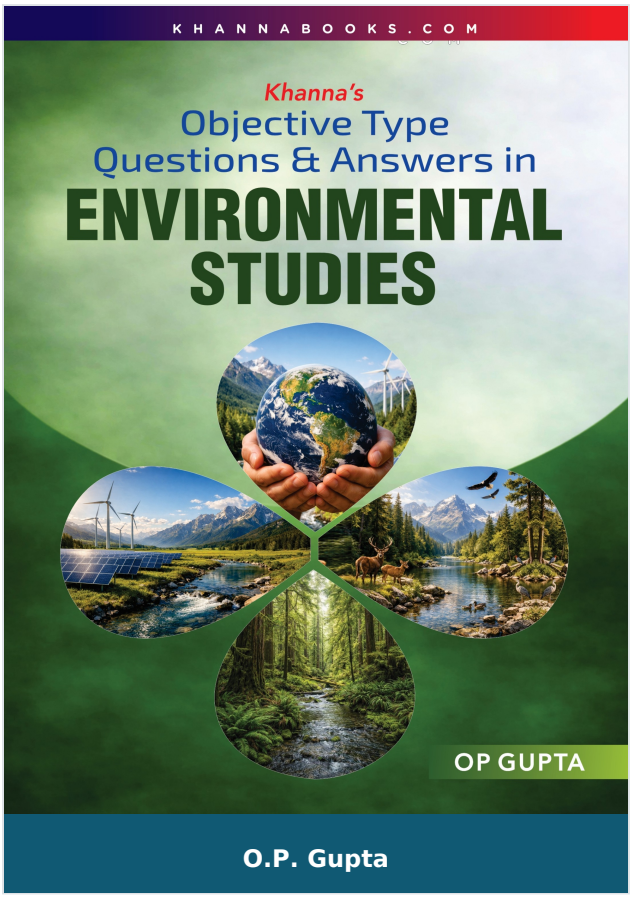
Sarat Kumar Sahoo

Dr. K. Selvajyothi Associate Professor, IIITDM Kancheepuram, Chennai Dr. S. Tamilselvi Associate Professor, Sri Sivasubramaniya Nadar College of Engineering, Chennai

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Khanna's Objective Type Questions & Answers in Environmental Studies

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Product Description

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

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

Salient Features

• Dual-Section Assessment Model: The text is strategically divided into objective-type questions and short-answer formats to cater to different examination patterns and learning styles.

• Multidisciplinary Scope: It covers a wide range of topics, including ecology, ecosystem dynamics, biodiversity, and the socio-economic impacts of industrialization and urbanization.

• Sustainable Development Focus: A significant emphasis is placed on sustainable practices, exploring the balance between economic growth and the preservation of

natural resources for future generations.

• Environmental Impact Tools: The book provides detailed insights into critical regulatory and assessment tools, such as Environmental Impact Assessment (EIA), essential for modern engineering and policy-making.

• Biodiversity and Conservation: Readers gain an in-depth understanding of genetic, species, and ecosystem diversity, alongside the legislative frameworks designed for wildlife and forest protection.

• Human-Centric Challenges: The content addresses pressing human issues, including population explosion, family welfare programs, and the health impacts of environmental pollutants like heavy metals and pesticides.

• Comprehensive Technical Glossary: A specialized glossary is included to define complex terminology in environmental science and renewable energy, ensuring students master the professional vocabulary of the field.

• Practical Problem Solving: Through its diverse Q&A format, the book encourages the application of engineering interventions for environmental protection, such as flood control and waste management.

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Author

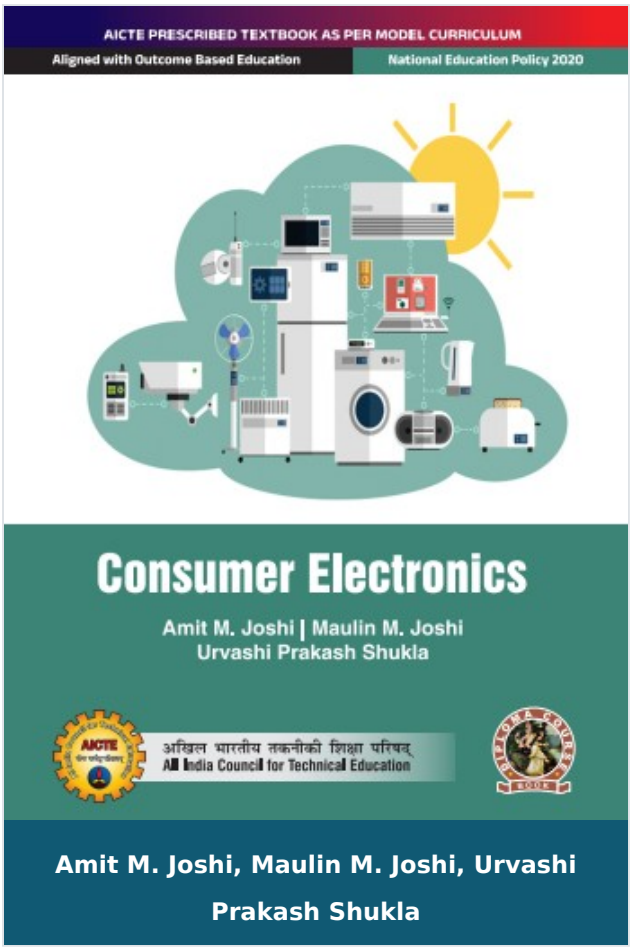
O.P. Gupta

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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Consumer Electronics

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Product Description

Consumer Electronics

This text book on consumer Electronics provides foundation of the subject to the reader. it familiarizes readers to important basic technical concepts of audio, video and consumer electronics devices used in daily affairs. The main concepts of this boo is aligned with model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- 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 lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

Amit M. Joshi

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Dr. Amit M. Joshi Assistant Professor, Malaviya National Institute of Technology Jaipur (MNIT), Jaipur Dr.

Maulin M. Joshi

Dr. Maulin M. Joshi Assistant Professor, Banasthali Vidyapith, Newai Dr.

Urvashi Prakash Shukla

Dr. Urvashi Prakash Shukla Assistant Professor, Banasthali Vidyapith, Newai

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Smarter City

Author :	Bala Sai Gayathri, G. Anbu Selvi, R. Nivedha
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Product Description

Smarter City

The concept of the Smarter City represents the future of urban living—a paradigm where technology, data, and interconnected infrastructure converge to enhance sustainability, efficiency, and the quality of life for citizens.

Smarter City provides an essential roadmap for understanding this complex evolution. It begins by laying the foundational pillars, exploring the convergence of IoT (Internet of Things), Cloud Computing, and Big Data as the technological engine of urban transformation. The book moves beyond theory to detail practical, real-world use cases, such as Connected Street Lighting that improves energy efficiency, Smart Traffic Control that dynamically reduces congestion, and Connected Environmental Monitoring systems that track air and water quality in real time.

This text is vital for urban planners, engineers, policymakers, and technologists seeking to grasp the architecture, implementation, and long-term impact of smart city initiatives. It is the definitive guide to building a truly intelligent, resilient, and sustainable urban future.

Salient Features:

- **Foundational Technology**: Deep dive into the core technologies enabling smart cities: IoT (Internet of Things), Cloud Computing, and Big Data Analytics.
- **Key Pillars of Smart Cities**: Comprehensive coverage of the main components, including Smart Governance, Smart Economy, Smart Mobility, Smart Environment, Smart People, and Smart Living.
- **IoT Architecture and Sensors**: Detailed explanation of the IoT architectural layers (Perception, Network, Application) and the role of various sensors (temperature,

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humidity, air quality) in data collection.

- **Practical Use Cases**: Real-world examples of successful smart city deployment, including:

1. Connected Street Lighting for energy saving and remote monitoring.
2. Smart Traffic Control for dynamic signal adjustment and congestion reduction.
3. Connected Environmental Monitoring for air quality tracking and pollution detection.

- **Cloud and Data Integration**: Analysis of how Cloud Platforms provide the necessary infrastructure for scalable data storage and how Big Data Analytics translates raw sensor data into actionable insights for city management.
- **Citizen-Centric Design**: Emphasis on how smart city initiatives directly benefit citizens by enhancing public safety, reducing commute times, and improving environmental sustainability.

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Author

Bala Sai Gayathri

Bala Sai Gayathri Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

G. Anbu Selvi

G. Anbu Selvi Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology R.Nivedha Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

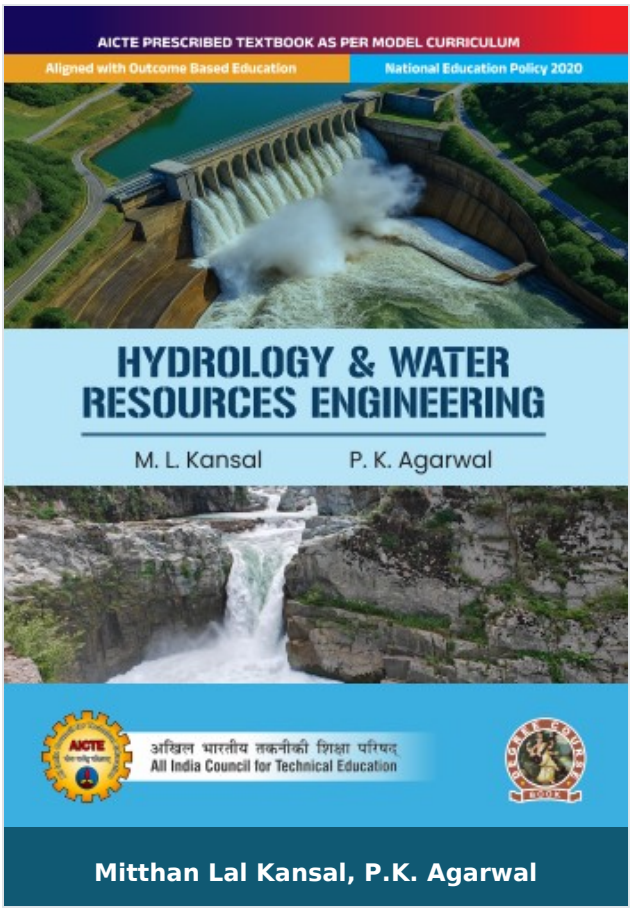
R. Nivedha

R. Nivedha, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

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Hydrology & Water Resources Engineering

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Product Description

Hydrology & Water Resources Engineering

This textbook on Hydrology and Water Resources is designed as per the new syllabus prescribed by the AICTE The book covers all aspects of the hydrological cycle like precipitation and its abstraction, surface runoff, subsurface water, well hydrology, dams and spillways, water withdrawals, uses, and the distribution systems The book is a complete resource with wide range of concepts that emphasise on learning through basic concepts and practical problems This meets the requirements of an undergraduate degree program of Civil Engineering in India

Salient features:

- The program, course, and unit results are mapped out in the book’s content.
- The book provides comprehensive information on the related topics.
- Subject material has been prepared keeping in mind the teachers and the students A balance of theory, numerical, and the practical aspects are maintained in a chronological order.
- Equations, tables, and figures are added to make the topics easier to understand.
- After every chapter, revision questions are provided to practice.
- Systematic steps are utilized to solve both solved and unresolved problems, such as numerical examples.
- The book ends with a list of references that a reader can refer for further advance knowledge on various topics.

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

Author

Mitthan Lal Kansal

Dr. M. L. KANSAL Professor (HAG) Department of Water Resources Development & Management, Indian Institute of Technology Roorkee P. K. Agarwal Former Scientist B National Institute of Hydrology Roorkee

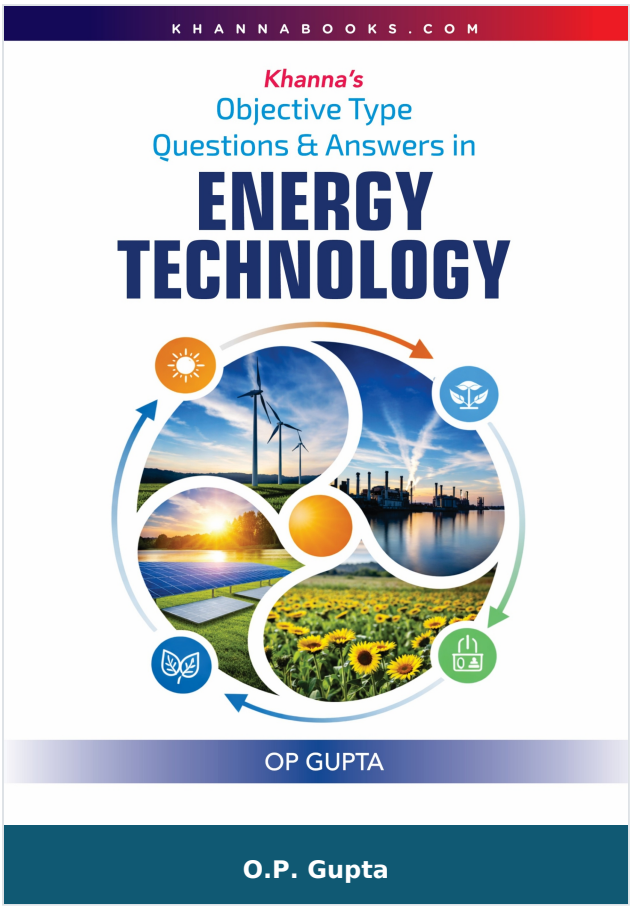
P.K. Agarwal

Dr. M. L. KANSAL Professor (HAG) Department of Water Resources Development & Management, Indian Institute of Technology Roorkee P. K. Agarwal Former Scientist B National Institute of Hydrology Roorkee

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

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



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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

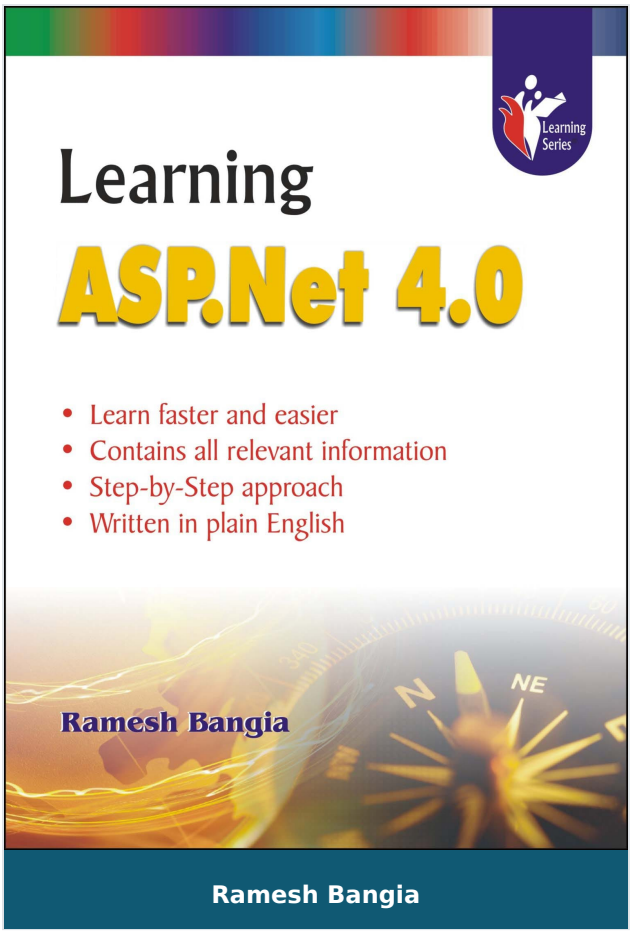
O.P. Gupta

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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Learning ASP.Net 4.0

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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Author

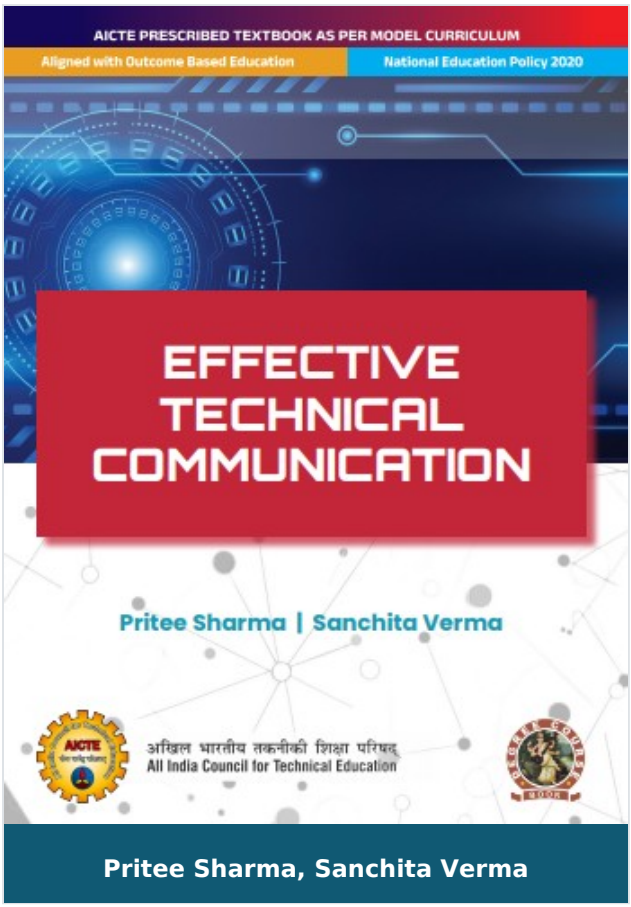
Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Effective Technical Communication

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Product Description

Effective Technical Communication

This book is a comprehensive guide into the sphere of technical communication. In the contemporary time, the workplace has become global, and communication is increasingly becoming more challenging and complex. This book serves as an essential guide to understand and develop technical skills in organizational communication.

Starting with the basics of communication process, this book delves into business communication, e-correspondence and various facets of planning and preparing a document for technical communication purposes.

Salient Features:

- Detailed alignment of content with course outcomes, program outcomes and specific unit outcomes
- each unit begins with clear learning objectives and pre-reading activity, preparing the reader to acquire necessary skills and knowledge.
- The book is enriched with latest information, interesting facts and QR codes linking to valuable e-resources for further information.
- An interesting blend of student and teacher centric materials, presented in a logical and coherent manner.
- Appropriate use of figures, tables and formats for better understanding of the concepts.
- Know more sections in each unit, encouraging readers to explore beyond the standard syllabus.
- Exhaustive exercises including MCQs and subjective questions provided at the end of each chapter.

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- This book is not just an academic tool, but a bridge to the contemporary professional world of technical communication making it a must have anyone stepping into the realm of organizational communication.

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Author

Pritee Sharma

Prof. Pritee Sharma Professor School of Humanities and Social Sciences IIT Indore Dr.

Sanchita Verma

Dr. Sanchita Verma Assistant Professor Adjunct (Former) School of Humanities and Social Sciences IIT Indore

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