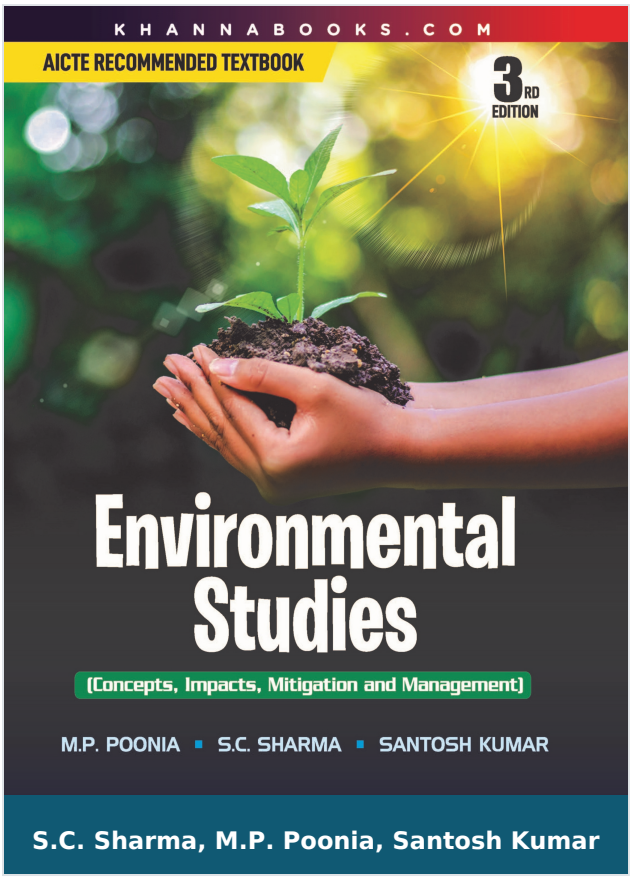

Environmental Studies

Author :	S.C. Sharma, M.P. Poonia, Santosh Kumar
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Product Description

Environmental degradation has been major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations.

India has recently started realizing the importance of environmental and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to College/University level.

This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science. ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals form concepts through impacts, mitigation auto management.

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- Water Resources
- Mineral Resources
- Land (Soil) Resources
- Energy Resources
- Food Resources
- Environmental Pollution (Hazards and Control)
- Waste Management
- Disaster Management
- Social Issues
- Environmental Challenges
- Human Population and the Environment
- Resettlement and Rehabilitation (R&R)
- Environmental Protection
- Environmental Legislations
- Environmental Impact Assessment (EIA)
- Environmental Management and Environmental Management Plan

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- Field Work (Project Work)
- Exercise (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MCQs, True-False)

Author

S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

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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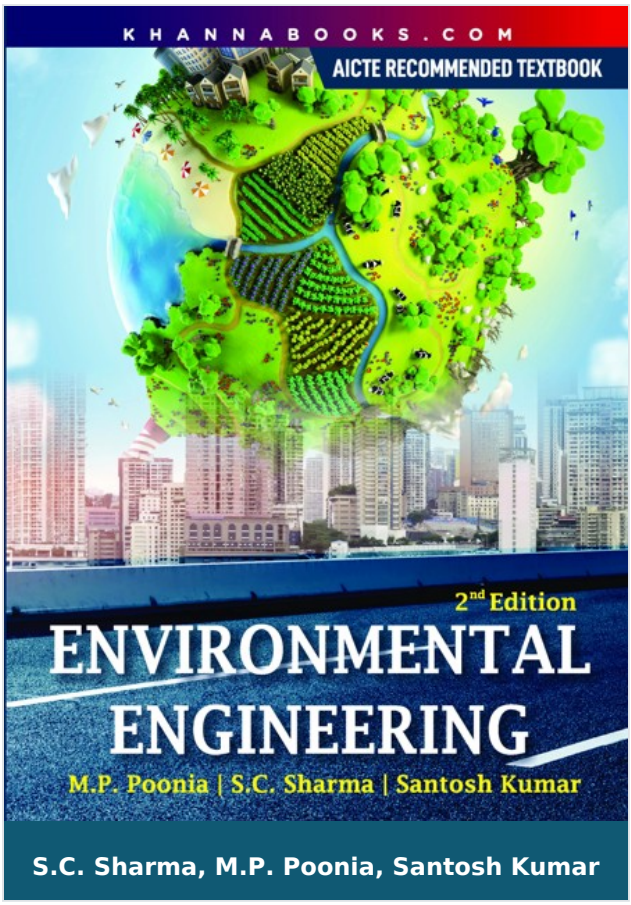

Environmental Engineering

Author :	S.C. Sharma, M.P. Poonia, Santosh Kumar
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Product Description

This book covers the syllabi of "Environmental Engineering" and " Public Health Engineering" of various Indian Universities. The book is recommended in AICTE model curriculum. The book has been divided in 3 parts; namely; Water Supply Engineering; Sewage Engineering Air Pollution Engineering.

The book is useful for Degree as well as Diploma students and is also likely to be useful for practising engineers in this field.

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- Environmental Engineering

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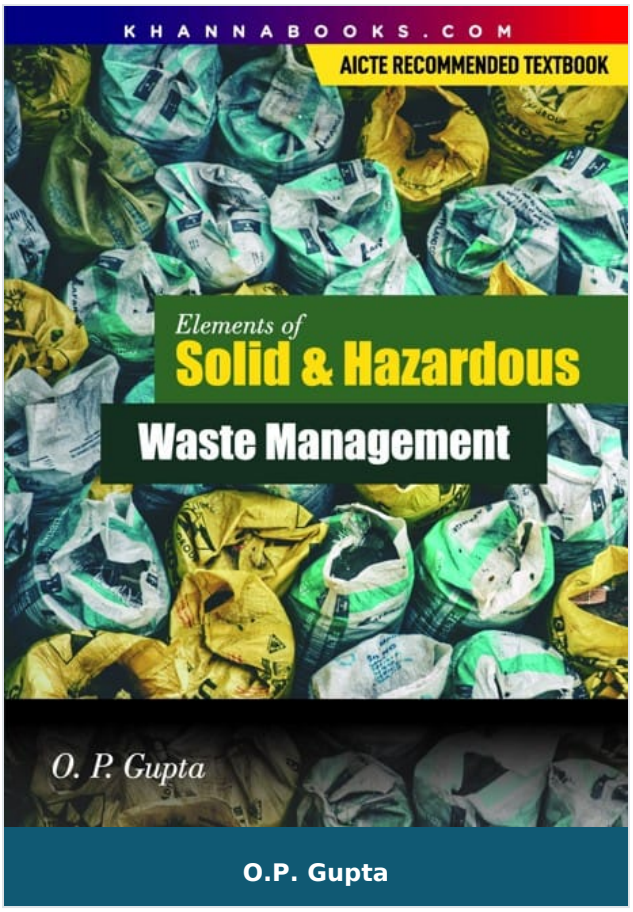

O.P. Gupta

Elements of Solid & Hazardous Waste Management

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Product Description

This book describes the essential features of Solid & Hazardous Waste Management covering the following topic:

1. Introduction to Solid Waste Management.
2. Municipal Solid Waste (MSW) Management .
3. Industrial Solid Waste Management.
4. Radioactive Waste (BMW) Management.
5. e- Waste Management.
6. Integrated Solid Waste Management (ISWM).

Besides, Short question & answers and multiple-choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examination given at the end of the book enhances its utility for the students.

The book will be useful for degree, postgraduate & diploma courses in engineering, AMIE, AMIIM & AMMIICHE examinations.

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- Municipal Solid Waste (MSW) Management
- Industrial Solid Waste Management
- Hazardous Waste Management
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- Short Q&A on Solid Waste Management (ISWM)
- Multiple Choice Q & A in Solid Waste Management
- Glossary of Terms Related to Solid & Hazardous
- References/Bibliography/Further Reading

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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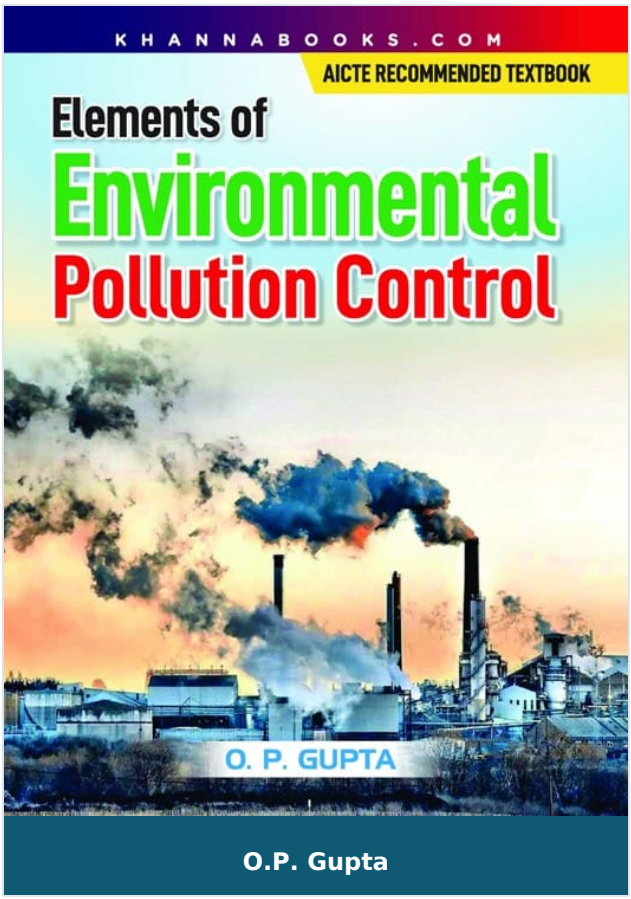

Elements of Environmental Pollution Control

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Product Description

This book will cater to the needs of students who want to pursue a Diploma in Engineering, Degree in Engineering (B. Tech/B.E., B.Sc.(Eng.) students. Postgraduate degree in Engineering (M. Tech, M.E.) students. AMIE (Associate membership of Indian Institute of Metals) examination. AMIICHE (Associate Membership of Indian Institute of Chemical Engineers) examination. AIC (Associateship of Institute of Chemist) examination. Practicing engineers in the field of environmental engineering. Environmental engineering professionals.

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- Terminology, Definition, Data, Units and their Conversion
- Classification of Environmental Pollutants
- Environment Its Components and Bio-Geochemical Cycles
- Atmosphere and its Constituents
- Introduction of Air Pollution
- Effects of Environmental Pollution on Plants/Trees/Vegetation

Author

O.P. Gupta

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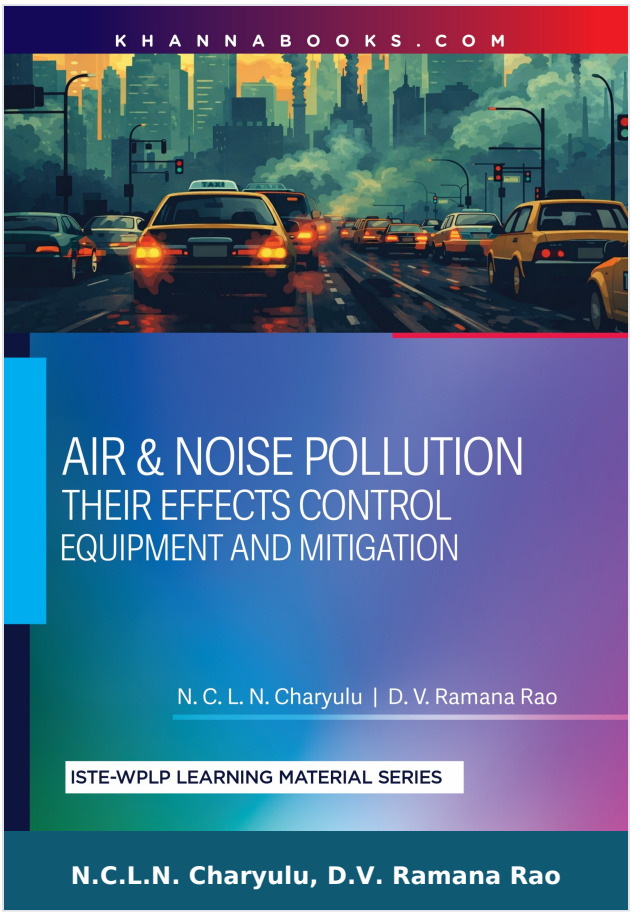

Air & Noise Pollution Their Effects Control Equipment and Mitigation

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Product Description

Air & Noise Pollution Their Effects Control Equipment and Mitigation

Industrial activities especially after the Industrial revolution all over the world have led to environmental problem by excessive consumption of resources and release of deleterious effluents, emissions and residues. Among the various aspects of pollutants, air, water noice are inherent characteristics, in contributing pollution in process industries. Air pollution in the form of particulates and gases are emanated from chemical and other process industries. Biological material from agricultural and other natural Phenomena are introduced or inserted into the atmospheric air.

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- FOREWORD
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- Base Line Date, Air Monitoring Devices and GIS
- Noise Pollution Its Sources and Standards
- Noise Abatement Measures
- Nanoparticle Emissions and Protective Controls
- Emerging Technologies for Particulate and Gaseous Emissions

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N.C.L.N. CHARYULU obtained B.Tech. (Chem Engg) from Andhra University in 1963 M. Tech. (Chem. Engg) with specialization in Chemical Plant Design, from IT Kharagpur, in 1967 (Technical Teacher Trainee) and Ph.D. (Chem Engg) from I.I.Sc., in 1977. Joined Karnataka Regional Engineering College, KREC Surathkal (presently renamed as National Institute of Technology Surathkal) as lecturer in 1967. Served in different capacities as Asst. Prof. Professor, Head of Chemical Engineering Department and Dean Students Affairs. Taken voluntary retirement in March, 2001 and joined Chaitanya Bharathi

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Institute of Technology (CBIT). Served as Prof and Head Chem Engg Dept., CBIT bill May, 2010. Total teaching experience of 46 Y (1954- 2010) He was awarded National Biotechnology Associate for One Year (1988-89) during which he was a visiting professor at Fermentation Technology and Bioengineering CFTRI, Mysore, in the Biotechnology associate ship programme. May-Nov 1990. he spent 3 months at NCSU, Raleigh, N.C., USA, another 3 months at UM.C.. USA, and Indian Secondment Visiting Professorship for one semester 1996-97 at School of Environment Resource Development, Asian Institute of Technology. Bangkok Thailand. He has Coordinated two I.S.TE. sponsored Winter Summer Schools a) Fluidization Engineering 1980 b) Bioconversion process optimization computer modeling-1989 and two refresher courses to working professionals a) Application of Chem. Eng. principles to Urea plant operators of MCF, Panambur 1993 and b) Unit operations for design, production and maintenance personnel in cement and mineral based industries October 20-25, 2008. He guided four theses for Ph.D. a) Biosynthesis of Cellulase enzyme and Modeling, 1994. b) Bioremediation of industrial and domestic effluents by microorganisms 1999. c) Studies on biodegradation of high BOD effluent by anaerobic digestion and modeling 2001. d) Study of Coagulation flocculation Process by polyelectrolytes for effective solid-liquid separation in water and wastewater treatment 2005. In addition he has guided over 20 M. Tech, theses. His areas of specialization are: Chemical plant design, Chemical reaction engineering, Enzyme synthesis, Bioremediation, Biosynthesis and Bioconversion, Simulation & Computer Modeling. Application of Science and Technology to Rural areas for utilization of Agro wastes, Environmental Impact Assessment, Environment Management Planning. He published about 15 technical papers in International and national journals and seminars/symposia. He delivered number of invited lectures. He was a chairman and/ or member of several academic bodies of different Universities-Mysore, Bangalore, Mangalore, Osmania, Kuvempu etc. Dr.

D.V. Ramana Rao

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Dr. D.V. Ramana Rao received his B.SC. (Hons) and M.Sc. in Chemical Technology from Andhra University and Ph.D. in Chemical Engineering from Indian Institute of Technology, Madras in 1970. He worked as a Research Associate, as part of post doctoral work at DECHEMA- Institute, Frankfurt, Germany in the field of corrosion for two years. Before joining Ph.D., he worked in Andhra University, I.I.T., Kanpur, and in the Chemical Engineering Department of National Sugar Institute as a lecturer. After from Germany, he joined as a Scientist at senior level in National Council for Cement and Building Materials (NCB), [formerly known as Cement Research Institute of India], New Delhi and retired as Joint Director, after working for 26 years. After retiring from NCB, he worked as Professor & Head of Chemical Engineering Department of BVRIT, Hyderabad and IS Sadan College of Engg and Technology. Hyderabad (present Boji Reddy College of Engineering) nearly for 2 years. At present he is the Managing partner of Institute of Particulate Technology International (IPT) from June 2004, which carries sponsored research work, training programmes for working personnel in Industry and Consultancy. He has authored 21 research papers, published in international, national journals and international seminars. He has to his credit 2 patents. He has prepared 15 technical reports of R&D work and coordinated more than 30 training programmes and 4 workshops to working personnel in cement manufacturing industries. At present as a managing partner of IPTI, he has carried out 7sponsored projects and two training programmes to working personnel in cement and pharmaceutical Industry.

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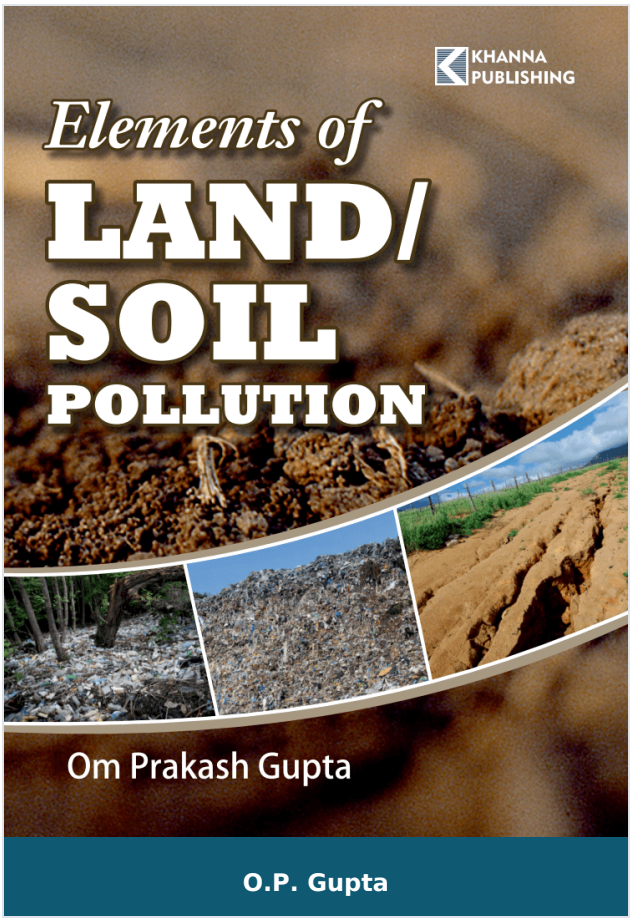

Elements of Land/Soil Pollution

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Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students.Up to date statistics and glossary of terms related to the subject have been included.

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- Chapter-5. Prevention & Control of Land/Soil Pollution
- Chapter-6. Short Questions & Answers on Soil Pollution
- Chapter-7. Multiple Choice Questions & Answers
- Chapter-8. Glossary of Terms Related to Soil Pollution

Author

O.P. Gupta

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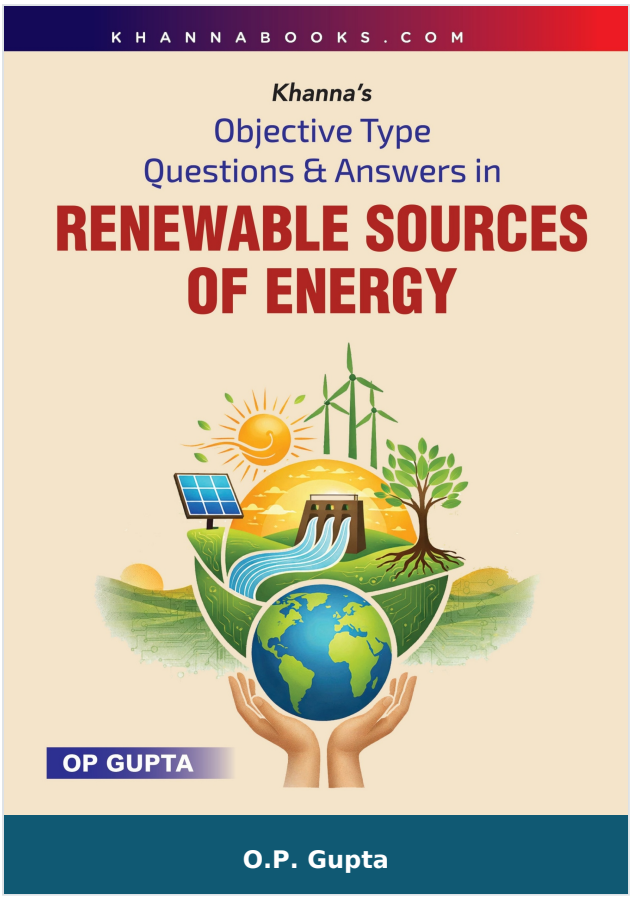

Khanna's Objective Type Questions & Answers in Renewable Sources of Energy

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Product Description

Objective Type Questions and Answers in Renewable Sources of Energy is a comprehensive academic resource designed to provide a deep understanding of the rapidly evolving field of sustainable energy. Authored by Om Prakash Gupta, an experienced professional in human resource development and engineering, this book serves as a vital tool for mastering the theoretical and practical nuances of green technologies. It covers a broad spectrum of topics, including solar, wind, geothermal, biomass, and ocean energy, as well as emerging fields like nuclear fusion and Magneto Hydro Dynamic (MHD) power generation.

The book is specifically tailored to meet the curriculum needs of undergraduate, postgraduate, and diploma students across various engineering branches. It also serves as an essential preparatory guide for competitive associate membership examinations such as AMIE, AMIIM, and AMIICHE. By blending hundreds of objective-type questions with detailed short-answer explanations and an extensive glossary, the text ensures that readers can effectively bridge the gap between classroom learning and professional application. Whether you are a student, a faculty member, or a practicing consultant, this book offers a structured and engaging approach to mastering the clean energy paradigms of the future.

Salient Features

• Comprehensive Topic Coverage: This book provides an exhaustive exploration of non-conventional energy sources, including solar, wind, ocean, geothermal, biomass, hydropower, and nuclear fusion energy systems.

• Diverse Question Formats: Readers benefit from a dual-structured learning approach featuring over a hundred pages of objective-type questions followed by detailed short-answer explanations for conceptual clarity.

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• Exam-Oriented Design: The content is meticulously aligned with the syllabi of major professional bodies and engineering universities, making it an ideal companion for AMIE and competitive exams.

• Technical Glossary Included: A specialized section dedicated to a glossary of terms ensures that students and professionals can quickly master the complex terminology used in renewable energy industries.

• Practical Working Principles: The book includes descriptive answers and sketches that explain the mechanics of advanced systems like OTEC, parabolic dish collectors, and geothermal flash steam plants.

• Environmental Impact Analysis: Beyond technical mechanics, the text addresses critical environmental considerations, such as waste treatment and the ecological benefits of moving away from fossil fuels.

• Professional Reference Value: While primarily academic, the book serves as a reliable reference for practicing engineers and consultants looking to refresh their knowledge on sustainable energy applications.

• Emerging Technology Insights: The content dives into modern energy conversion devices, offering specific insights into fuel cells, thermionic converters, and Magneto Hydro Dynamic (MHD) generators.

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Author

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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

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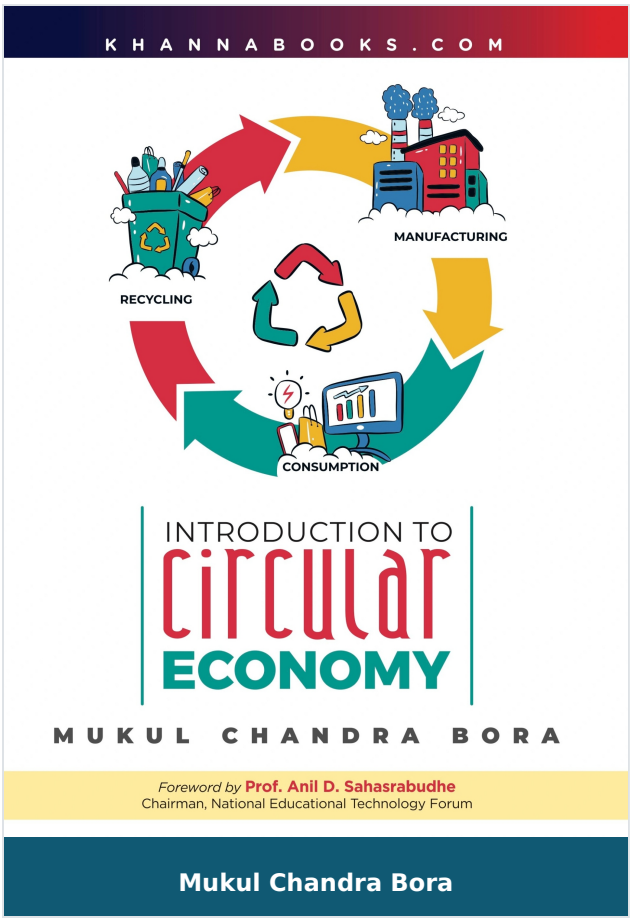

Introduction to Circular Economy

Author :	Mukul Chandra Bora
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Product Description

The concept of a Circular Economy has emerged as a transformative framework for addressing the environmental, economic, and social challenges of the 21st century. As the global population continues to grow and natural resources become increasingly scarce, the limitations of the traditional linear economy — characterized by a "take, make, dispose" model — have become evident. The linear approach has not only strained ecological systems but also led to significant economic inefficiencies and social inequalities. In response to these challenges, the circular economy presents a regenerative and restorative model designed to minimize waste, optimize resource use, and create sustainable economic opportunities.

The Bharatiya Gyana Parampara i.e., Indian Knowledge System as it commonly known to all of us now is also briefly described in this book as the concept of a circular economy was inherently practiced in ancient India, deeply rooted in the principles of sustainability, resource efficiency, and minimal waste generation. Traditional Indian society emphasized harmony with nature through practices such as reuse, recycling, and repurposing of materials. Agricultural systems followed natural cycles, using organic compost and crop rotation to maintain soil fertility. Handicrafts and textiles were produced using renewable resources like cotton, wool, and natural dyes, with worn-out materials often repurposed into quilts, ropes, or cleaning cloths. Metal and wooden tools were repaired or melted down for reuse, reflecting a resource-conserving mindset. Water harvesting systems, such as stepwells and reservoirs, ensured sustainable water management. The philosophical and spiritual underpinnings of Indian culture, including concepts from Vedic and Buddhist traditions, advocated for minimalism and mindful consumption, discouraging excess and waste. This self-sufficient and regenerative approach to production and consumption closely aligns with modern circular economy principles, highlighting the relevance of ancient Indian wisdom in addressing contemporary

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sustainability challenges.

This book, Introduction to Circular Economy, aims to provide a comprehensive foundation for understanding the principles, strategies, and practical applications of the circular economy. It explores how circular thinking can reshape industries, redefine business models, and drive innovation in the face of growing environmental and economic pressures. The circular economy encourages a shift from the consumption of finite resources to the use of renewable inputs, the extension of product life cycles through repair and remanufacturing, and the recovery of materials at the end of their useful life.

This book also provides a brief outline about the Economic theories and its evolution in the first chapter which is of great need to understand the importance of Circular Economy in present day context. This review of economic theories provides valuable insights into the foundation and evolution of the circular economy. Classical and neoclassical theories, pioneered by Adam Smith and Alfred Marshall, emphasized market efficiency, resource allocation, and profit maximization, but largely overlooked environmental constraints and waste generation. Keynesian economics highlighted the role of government intervention and public investment, which is crucial for supporting circular initiatives through infrastructure and policy measures. Institutional economics underscores the importance of regulatory frameworks, incentives, and market structures in enabling circular business models. Evolutionary and innovation economics highlight the role of technological advancements and business model disruptions in driving circular practices such as recycling, remanufacturing, and product lifecycle extension. Behavioural economics further informs how consumer preferences and social norms can influence the adoption of circular products and services. Thus, the circular economy integrates insights from multiple economic theories to create a sustainable framework that balances economic growth with environmental and social well-being.

Throughout this book, we will examine the theoretical underpinnings of the circular economy, tracing its evolution from early environmentalist movements to its current

status as a key driver of sustainable development. We will analyze real-world examples from various sectors — including manufacturing, construction, fashion, and electronics — to illustrate how businesses and governments are adopting circular strategies to reduce waste and create value. Additionally, we will explore the policy landscape, highlighting global initiatives and regulatory frameworks that are supporting the transition to a circular economy.

The role of Life Cycle Analysis in Circular Economy is also discussed due to its inherent role in implementation of circular economic model in real life applications as Life Cycle Analysis (LCA) plays a crucial role in the circular economy by providing a systematic method to assess the environmental impact of a product, process, or service throughout its entire life cycle. LCA evaluates all stages, including raw material extraction, manufacturing, distribution, use, and end-of-life disposal or recycling. In the context of a circular economy, LCA helps identify opportunities to reduce waste, improve resource efficiency, and extend product lifespans by highlighting the environmental costs and benefits of different production and consumption models. By measuring energy consumption, emissions, and material use at each stage, LCA enables businesses and policymakers to make informed decisions that support recycling, remanufacturing, and sustainable design. This ensures that economic activities are aligned with environmental sustainability, minimizing resource depletion and waste generation while promoting a closed-loop system.

A key focus of this work is to present the circular economy not merely as an environmental necessity but as a significant economic and strategic opportunity. By adopting circular principles, businesses can reduce costs, improve supply chain resilience, and unlock new markets. Moreover, the circular economy offers a pathway to greater social equity by promoting resource efficiency, reducing environmental degradation, and fostering inclusive economic growth.

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This book is intended for a broad audience, including business leaders, policymakers, researchers, and students. It provides both a conceptual understanding and a practical roadmap for implementing circular strategies at different scales — from individual businesses to global value chains. Each chapter includes case studies, key insights, and discussion questions to encourage deeper engagement with the material.

The transition to a circular economy represents one of the most promising avenues for achieving sustainable development in the 21st century. By closing the loop on resource use and fostering innovation in product design, supply chain management, and waste recovery, the circular economy holds the potential to create a more resilient, inclusive, and environmentally sustainable global economy. It is my hope that this book will inspire readers to rethink existing models of production and consumption and embrace the opportunities offered by circularity.

I am grateful to the reviewer Dr Rupsikha Sharma, Tampines, Singapore and other researchers, practitioners, and thought leaders whose work has been informed the insights presented in this book and are duly credited in the references. I would also like to thank my colleagues and family for their invaluable support throughout the writing process. May this work serve as a guiding resource for all those committed to building a more sustainable and prosperous future.

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- Business Model and Circular Economy
- Business Model and Case Studies in Circular Economy
- Reference (Suggested Reading)

Author

Mukul Chandra Bora

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

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Department of Government of Assam together with professional experience as a Quantity Surveyor at PBS Limited, Guwahati (199l-1995) and a Site Engineer at M.L. Dalmiya & Co. Ltd., Kolkata (l989-1991). Dr. Bora's research and consultancy work focus on ground improvement techniques, geosynthetics, rainfall impact on groundwater, non-biodegradable waste in construction, and slope stabilization. He has contributed significantly to materials characterization and geotechnical investigations for major infrastructure projects, including power plants and industrial facilities. He is at fellow of the Institution of Engineers (India), a Senior Member of the Asia Pacific Chemical, Biological and Environmental Engineering Society (Hong Kong), and a Member of the International Association for Life Cycle Civil Engineering (Italy). Additionally, he serves as a reviewer for reputed journals, including Springer's Journal of the Institution of Engineers (India), Series A. Beyond civil engineering, Dr. Bora has made remarkable contributions to the Bhartiya Knowledge System (BKS), which encompasses philosophy, science, mathematics, astronomy, Ayurveda, linguistics, and traditional Indian technologies. Rooted in ancient texts like the Vedas and Upanishads, BKS has profoundly influenced Indian civilization. Dr. Bora is dedicated to reviving and integrating traditional Indian knowledge with modern research and education, bridging the gap between ancient wisdom and contemporary advancements. His book, ''Foundations of Bhartiya Knowledge System" (2023), published by Khanna Publishing House, delves into the fundamental principles of India's knowledge systems, promoting their relevance in the modem era. Through his work, Dr. Bora continues to advance both civil engineering and India's intellectual heritage, fostering a deeper appreciation of Bhartiya wisdom among scholars and students.

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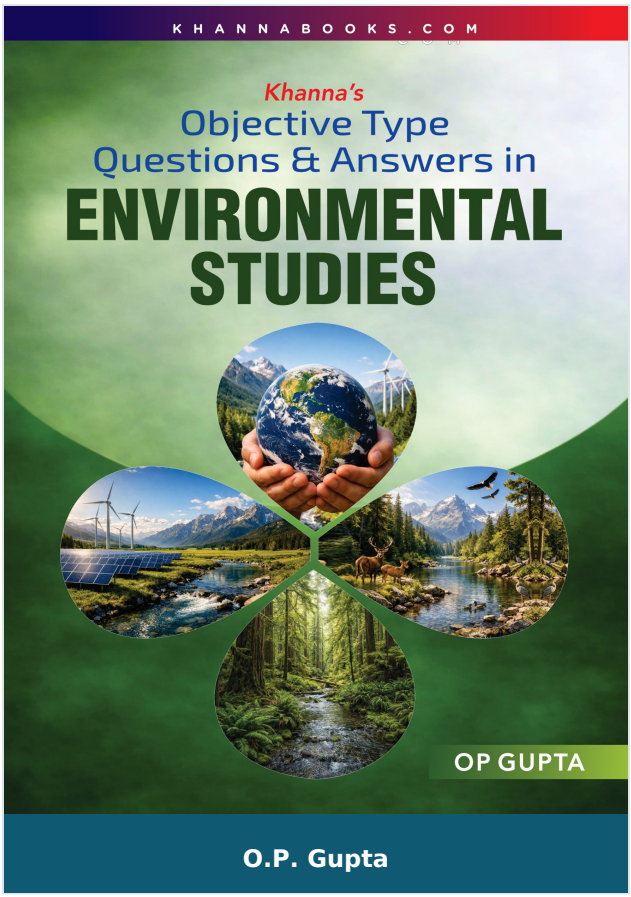

Khanna's Objective Type Questions & Answers in Environmental Studies

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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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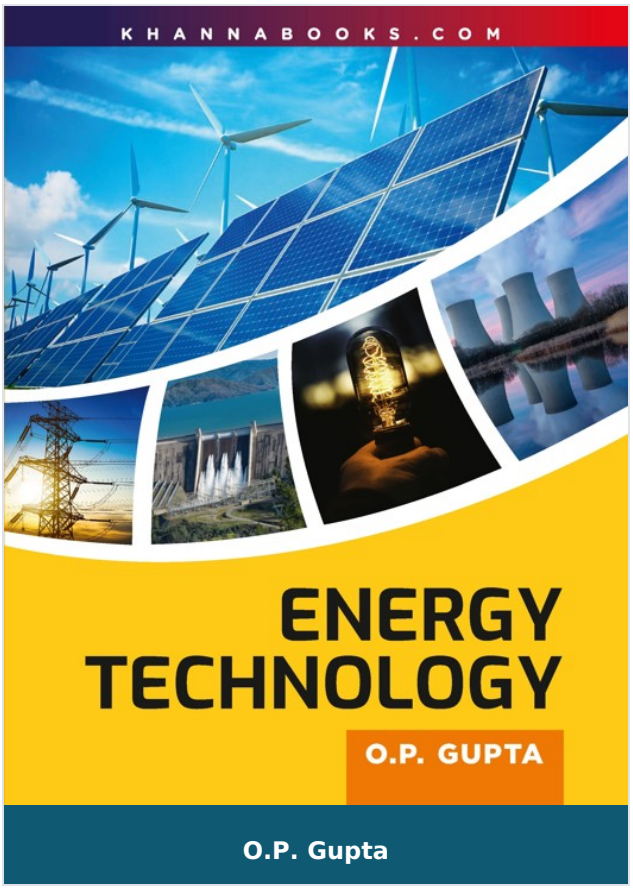

Energy Technology

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Product Description

Energy Technology is an integral part of the degree, postgraduate & diploma curriculum of various branches of engineering. besides, it is also a compulsory paper for various associate membership examination conducted by professional bodies like institution of engineering (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineering (AMIICHE), BEE etc. This book has been prepared strictly as per the syllabus of these examinations. Short questions & answer and multiple-choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the student.

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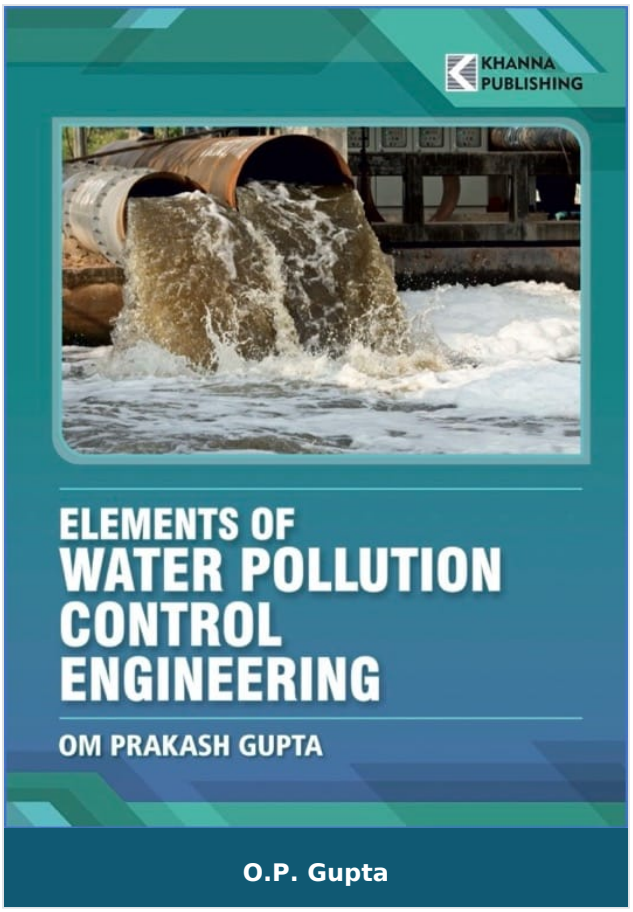

Elements of Water Pollution Control Engineering

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Product Description

The book contains twelve chapters followed by appendices (meant for specific target reader groups) pertaining to complete domain of water pollution control engineering. Beside, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. the book will be useful for degree & diploma curriculum or various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineers (AMIICHE), Institute of Chemist etc. It will also be equally useful for M.Sc. & B.Sc. students.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & easy to understand language.

Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short question & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students.

Up to date statistics and glossary of terms related to the subject have been included.

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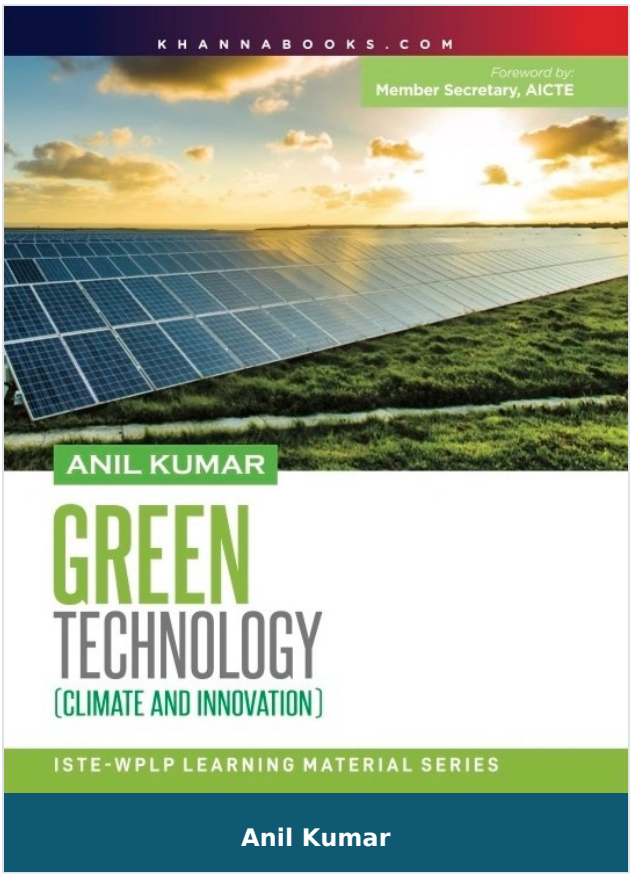

Green Technology (Climate and Innovation)

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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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- Global Warming and Future Trends
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- Radiative Forcing, RCP, SSP
- Global Studies on Climate Change
- Global Climate Actions, Agreements and Protocols
- UN Climate Change Conference- GLASGOW and BEYOND
- India’s Action on Climate Change
- Clean Technologies
- Environmental Sustainability for Atmanirbhar Bharat
- Earth and Climate for Future Generation: A Call for Action
- 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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