

# CATALOGUE 2020-21



Books, Journals, Periodicals, and Audio-visuals on  
**Climate, Energy, Environmental Engineering, Civil Engineering,  
Architecture, Environmental Science, and Life Sciences**

## ENERGY

### TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2017/18

(with complimentary CD)

A TERI Publication

*TERI Energy & Environment Data Diary and Yearbook*, or *TEDDY*, is an annual publication brought out by TERI since 1986. *TEDDY* is often used as a reference in other peer-reviewed books and journals for energy and environment-related data. It gives an annual overview of the developments in the energy supplying and consuming sectors as well as the environment sector. It also provides a review of the government policies that have implications for these sectors of the Indian economy.

**Contents:** Energy and environment: an overview **Energy supply:** Coal and lignite • Petroleum and natural gas • Power • Renewable energy **Energy demand:** Agriculture • Industry • Transport • Household energy **Local and global environment:** Air Pollution • Solid Waste Management • Water Resource Management • Land and Forest Resource Management • Climate change

**2019 • 350 pages • Hardback • 220mm × 280mm • 9789386530868 • ₹1995.00**

New



### Algal Biofuel: sustainable solution

Richa Kothari, Vinayak V Pathak, and V V Tyagi

*Algal Biofuel: sustainable solution* explores a wide spectrum of bioenergy sources, including their applications. It provides latest information in the field of bioenergy technologies and their future prospect including lipid content. It discusses governance of biofuel at global and national level and the potential of biofuel to meet the rising energy demand. The book focuses towards the strategies to ensure the availability of algal biomass, effective cultivation and harvesting techniques. The strategies to enhance the algal lipid synthesis and its conversion for biodiesel production have been elaborated.

**Contents: PART A: BIOENERGY OPTIONS: TECHNOLOGICAL SCENARIO AND CHALLENGES**

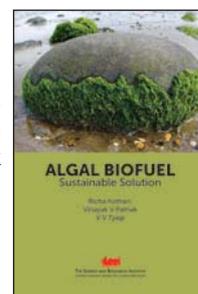
• Biorefinery: a future approach for sustainable bio-economy • Algal biomass harvesting for biofuel production • Anaerobic digestion for bioenergy production • Application of algal biomass as a feedstock for fermentative bio-hydrogen production • Bio-ethanol production from lignocellulosic/algal biomass • Bioenergy potential in Asia and Future Prospects

**PART B: BIOMASS BASED BIOFUEL FEED STOCKS: AVAILABILITY AND UPSTREAM PROCESSES**

• Crop residues as a potential substrate for bio-energy production: an overview • Magnetic harvesting of microalgae biomass for cost effective algal biofuel production • Biodiesel production from non-edible oil seeds • Carbon sequestration and biofuel production by microalgae: an integrated and sustainable approach • Role of meteorological parameters on atmospheric aerosols concentration and its control through modern biomass application • Application of immobilized algae in water and wastewater treatment • Recent biotechnological approaches for bio-energy production: the path forward • Lipid induction in algal biomass for sustainable bioenergy production

**2019 • 350 pages • Hardback • 160mm × 240mm • 9789386530943 • ₹650.00**

Forthcoming



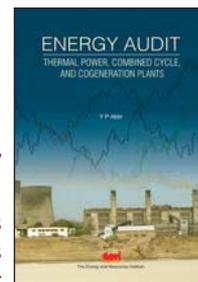
### Energy Audit: thermal power, combined cycle, and cogeneration plants

Y P Abbi

*Energy Audit: thermal power, combined cycle, and cogeneration plants* attempts to refresh the fundamentals of the science and engineering of thermal power plants and establishes its link with the real power plant performance data through case studies, and it further develops techno-economics of the energy efficiency improvement measures. This book will rekindle interest in energy audits and analysis of the data for designing and implementation of energy conservation measures on a continuous basis.

**Contents:** • Energy conservation in operation of thermal power plants • **Section A: design concepts** • Design concepts of steam cycle power plants • Design concepts of cogeneration plants • Design concepts of combined cycle power plants • **Section B: Energy audit of steam cycle power plants** • Introduction / getting initiated for EA • Energy audit of boilers and their auxiliaries • Energy audit of turbine-generator and their auxiliaries • Establishing heat rate, specific fuel consumption, and cost of electricity generation from a steam cycle plant • Energy audit of plant auxiliaries • **Section C: Energy audit of cogeneration and combined cycle plants** • Energy audit of steam turbine-based cogeneration plants • Energy audit of gas turbine-based cogeneration and combined cycle plants

**Reprint 2015 • 288 pages • Hardback • 160mm × 240mm • 9788179933114 • ₹1500.00**



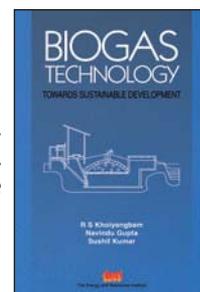
## Biogas Technology: towards sustainable development

*R S Khoiyangbam, Navindu Gupta, and Sushil Kumar*

The global demand for energy is met mainly by fossil fuels. Their excessive and indiscriminate use, coupled with increasing demand for energy, will soon deplete their existing reserves. Therefore, it is extremely important to find alternative, environment-friendly, and ecologically sound sources of energy for meeting the present and future energy requirements. *Biogas Technology: towards sustainable development* makes an attempt to explore the potential of utilizing biodegradable biomass as fuel and manure.

**Contents:** Biogas technology • Anaerobic digestion • Biogas plant models • Biogas as energy source • Biogas spent slurry as manure • Biogas and environment • Biogas and global warming • Biogas and rural development

**Reprint 2016 • 218 pages • Hardback • 160mm × 240mm • 9788179934043 • ₹350.00**



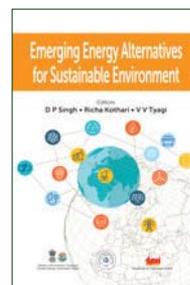
## Emerging Energy Alternatives for Sustainable Environment

*D P Singh, Richa Kothari, and V V Tyagi (eds)*

This book aims to address the role of sustainable technologies in energy generation options for clean environment. It covers a wide spectrum of energy generation approaches, with an emphasis on five key topics: (i) renewable energy sources and recent advances, (ii) emerging green technologies for sustainable development, (iii) assessment of biomass for sustainable bioenergy production, (iv) solid waste management and its potential for energy generation, and (v) solar energy applications, storage system, and heat transfer.

**Contents:** Biogas Potential in India: Production, Policies, Problems, and Future Prospects • Membrane-less Microbial Fuel Cell: A Low-cost Sustainable Approach for Clean Energy and Environment • Hydrogen Energy: Present and Future • Emerging Energy Alternatives for Sustainable Development in Malaysia • Role and Initiatives of Indian Government Policies for Growth of Wind Energy Sector • Improved Technology for Non-edible Seed Oils: Sources for Alternate Fuels • Adsorption and photodegradation of sulfamethoxazole in a three-phase fluidized bed reactor • Application of Cellulose Nitrate Membrane for Pervaporative Separation of Organics from Water • Green Chemistry: Mitigatory Measure for Environmental Pollution • Building Energy Simulation for Improved Thermal Performance: A CFD Approach • Cyanobacterial Biomass – A Tool for Sustainable Management of Environment • Low-cost Production of Algal Biofuel from Wastewater and Technological Limitations • Physical and Chemical Exergy Analysis and Assessment of Biogas as an Energy Source in Hybrid Cooling Machine • Lignocellulosic Biomass to Bioenergy Production: Process and Techniques for Biomass Assessment • Municipal Solid Waste Management in India: Present Status and Energy Conversion Opportunities • Organic Superfluous Waste as a Contemporary Source of Clean Energy • Vermicomposting: A Potential Tool for Sustainable Management of Solid Waste • Biogas Potential from Sewage Treatment Plant and Palm Oil Mill Effluent for Electricity Generation in Malaysia • Passive Energy in Residential Buildings • Solar Photocatalytic Treatments of Wastewater and Factors Affecting Mechanism: A Feasible Low-cost Approach • Advancement in Phase Change Materials for Solar Thermal Energy Storage • Earth to Air Heat Exchanger Systems for Small Houses and Industrial Buildings in Changing Indian Climatic Conditions • Development in Metal Oxide Nanomaterial-based Solar Cells

**2016 • 536 pages • Hardback • 160mm × 240mm • 9788179934111 • ₹995.00**



## Energy and Environment

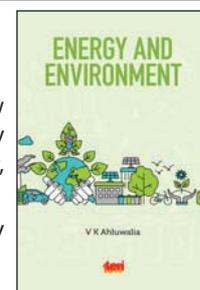
*V K Ahluwalia*

*Energy and Environment* discusses various forms of energy. It examines environmental impacts of energy generation and how non-renewable sources of energy contribute significantly to environmental pollution. In the book the role of renewable energy sources in mitigating global problem of environmental pollution is also discussed at length. It also elaborates on storage of energy, an important subject, in the context of rising energy demands of the present world.

**Contents:** Introduction to Energy • Renewable Sources of Energy • Non-renewable Energy Sources • Nuclear Energy • Alternative Fuels • Energy Storage and Other Sources of Energy

**2019 • 120 pages • Paperback • 160mm × 240mm • 9788179936610 • ₹295.00**

New



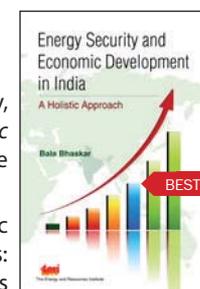
## Energy Security and Economic Development in India: a holistic approach

*Bala Bhaskar*

Energy is fundamental to the economic development of a society. Ensuring energy security is critical to the security, sovereignty, and well-being of any country. However, there is no consensus on the definition of energy security. *Energy Security and Economic Development in India: a holistic approach* attempts to construct an appropriate definition for the concept of energy security. The evolution of energy security is traced at both the global level and in the Indian context.

**Contents:** Biofuels • Bioethanol production from lignocellulosics: an overview • Bioethanol: a status review on metabolic pathway modification of certain ethanologenic bacteria through genetic engineering • Bioethanol production technologies: economics, environmental impact, and policy issues • Bio-hydrogen: applications and future prospects • Methanogenesis from agro-industrial residues: potential and prospects • Biomass-gasifier-based decentralized energy solutions: technology, potential, problems, and research • Industrial solid waste • Coalbed methane • Bioreactors for wastewater treatment • Ceramic membrane filters from waste fly ash and their applications • Technological options for municipal solid waste management • Technology trends and opportunities in cogeneration • Environmental regulations for waste management in India

**Reprint 2013 • 439 pages • Hardback • 160mm × 240mm • 9788179934609 • ₹795.00**



BESTSELLER

## From Sunlight to Electricity: a practical handbook on solar photovoltaic applications

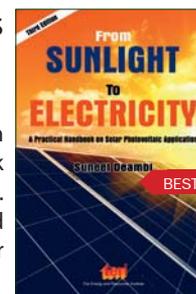
### Third Edition

Suneel Deambi

The third edition of *From Sunlight to Electricity: a practical handbook on solar photovoltaic applications* brings in the latest information about photovoltaic sector in India, designs and applications of specific devices and related benefits, finance, and policies. This book gives readers an understanding of the photovoltaic technology programme in India, the issues therein, and its future directions. The information has been presented in a format that is easy to understand and apply. In this third edition, the author has included topics such as "global development in PV system", "installation and maintenance of PV systems", and "application of PV systems for other households".

**Contents:** • Overview of solar photovoltaic programme worldwide • Components of photovoltaic systems • Applications of photovoltaic systems • Designing a solar PV system • Costing of solar photovoltaic systems • Installation and maintenance of photovoltaic systems • Overview of solar photovoltaic programme in India • International photovoltaic programme

**Reprint 2018 • 172 pages • Paperback • 140mm × 220mm • 9788179935736 • ₹250.00**



## Fuel Pricing in India

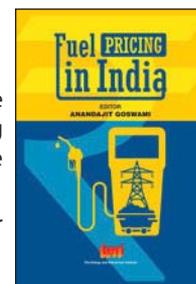
Anandajit Goswami (ed.)

*Fuel Pricing in India* gives a narrative on fossil fuel pricing issues, covering coal, oil, gas, and electricity. Value chain analyses of the sectors are given to show how taxes and subsidies flow in between different points of the sector. The macroeconomic modelling narrative of the study is also presented in the book. Based on the findings of each of the chapter, the book presents the possible future policy conclusions in the domain of tax- and subsidy-related reforms in India.

**Contents:** • Coal pricing: value chain analysis • Subsidies and taxes in electricity sector • Pricing in India's oil and gas sector • Integrated macroeconomic modelling framework • Macro model findings • Conclusion

**2018 • 156 pages • Hardback • 160mm × 240mm • 9789386530097 • ₹325.00**

New



## Handbook on Energy Audit and Environment Management

Y P Abbi and Shashank Jain (eds)

*Handbook on Energy Audit and Environment Management* deals at length with the energy audits and takes a closer look at the concept of environment management. TERI endeavours to bring its experience of over two decades in the field of energy audits and provides methodology and guidelines to those involved in this field. Energy audits may be considered the first step towards understanding how energy is being used in a given facility. It indicates the ways in which different forms of energy are being used and quantifies energy use according to discrete functions. The book offers an overview on industrial energy conservation.

**Contents:** • Industrial energy conservation: an overview • Electric motors • Lighting • Electrical load management • Power quality • Energy management information system • Boilers • Compressed air network • Steam distribution systems • Refrigeration and air conditioning • Pumps and pumping system • Fans and blowers • Cooling tower • Industrial furnaces • Thermic fluid heaters • Water audit and conservation • Solar energy options for industries • Energy, climate change, and clean development mechanism • Environmental management in industries • Future cleaner energy options • Annexure: frequently asked questions

**Reprint 2016 • 302 pages • Hardback • 180mm × 240mm • 9788179930922 • ₹1500.00**



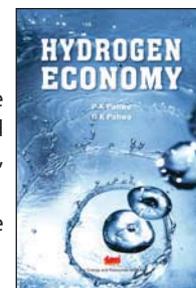
## Hydrogen Economy

P K Pahwa and G K Pahwa

*Hydrogen Economy* discusses the strategies and roadmaps of introducing hydrogen as the alternate source of fuel for sustainable development. The book examines the link between development and energy, prospects of sustainable development, and significance of hydrogen energy economy. It provides an authoritative and up-to-date scientific account of hydrogen generation, storage, transportation, and safety.

**Contents:** • Energy and development • Significance of hydrogen economy • Hydrogen production • Hydrogen storage • Transportation, distribution, and utilization of hydrogen • Hydrogen hazards assessment and safety

**2014 • 390 pages • Hardback • 160mm × 240mm • 9788179935040 • ₹995.00**



### Other Books on Energy

**Biofuels: towards a greener and secure energy future** by P P Bhojvaid (ISBN: 9788179930854) Price: ₹530

**Defining an integrated energy strategy for India** by TERI (ISBN: 9788179930083) Price: ₹180

**Dictionary of Energy: (South Asia Edition)** by Culter J Cleveland (ISBN: 9788131205365) Price: ₹1750

**Production and Technology of Bio-diesel: seeding a change** by Alok Adholeya (ISBN: 9788179931578) Price: ₹495

**Renewable Energy in the Sundarbans** by TERI (ISBN: 9788179931202) Price: ₹650

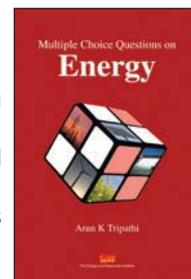
## Multiple Choice Questions on Energy

Arun K Tripathi

*Multiple Choice Questions on Energy* contains about 1300 multiple choice questions covering various sectors of energy, including mechanical energy, electrical energy, chemical energy, nuclear energy, thermal energy, magnetic energy, sound energy, energy from coal, petroleum oil and natural gas, renewable energy, and energy conservation. An introduction to energy has been presented in a comprehensive yet simplified form. This book is useful for academicians, students pursuing engineering or agriculture-related courses, aspirants of various competitive exams, professionals, and stakeholders in the energy sector. It can also be a tool for various quiz programmes organized in schools, universities, and engineering institutions.

**Contents:** • Introduction • Mechanical energy • Electrical energy • Chemical energy • Thermal energy • Nuclear energy • Magnetic energy • Sound energy • Energy from coal • Energy from petroleum and natural gas • Solar energy • Wind energy • Biomass energy • Small hydropower • Ocean wave and tidal energy • Hydrogen energy • Geothermal energy • Light energy • Energy conservation • Miscellaneous questions • Answers • Bibliography

**Reprint 2017 • 354 pages • Paperback • 160mm × 240mm • 9788179933053 • ₹295.00**



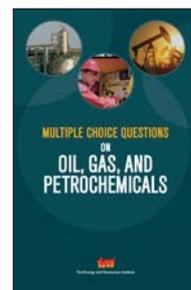
## Multiple Choice Questions on Oil, Gas, and Petrochemicals

TERI Publication

This book contains over 1500 questions covering the areas such as exploration of oil and gas, refining of oil, natural gas, and petrochemical sectors. It deals with various aspects of the petrochemical sector and attempts to present the subject in a simple and concise manner. *Multiple Choice Questions on Oil, Gas, and Petrochemicals* will help readers evaluate their understanding of the oil and gas sector. In each chapter, the questions are classified into three levels—easy, medium, and tough.

**Contents:** • Introduction • Exploration and production • Refining • Natural gas • Petrochemicals

**2016 • 346 pages • Paperback • 160mm × 240mm • 9788179935422 • ₹350.00**



## Multiple Choice Questions on Renewable Energy

### Second Edition

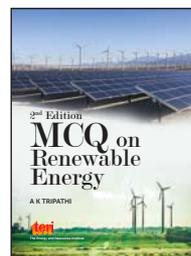
Arun K Tripathi

The second edition of *Multiple Choice Questions on Renewable Energy* explores renewable energy sector in a multiple choice question format. The questions contained in the book focus on solar, wind, biomass, biogas, biofuels, hydro, energy from wastes, hydrogen, geothermal, ocean, tidal, and waves. Similar to the previous edition, this edition too has three levels of questions. The book provides a comprehensive overview of renewable energy development in India.

**Contents:** • Renewable energy development in India • Quiz on renewable energy • Renewable energy exercise – Level 1 • Renewable energy exercise – Level 2 • Renewable energy exercise – Level 3 • Miscellaneous questions on renewable energy

**2017 • 176 pages • Paperback • 180mm × 240mm • 9788179936559 • ₹395.00**

New



## Renewable Energy Engineering and Technology: principles and practice

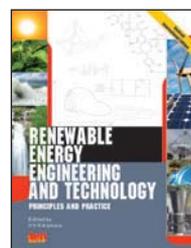
### Revised International Edition

V V N Kishore (ed.)

*Renewable Energy Engineering and Technology: principles and practice* is a comprehensive guide to renewable technologies and engineering, intended to cater to the rapidly growing number of present and future engineers who are keen to lead the renewable energy revolution. All the main sectors are covered—photovoltaic, solar, thermal, wind, bioenergy, hydro, wave/tidal, geothermal—progressing from the fundamental physical principles, through resource assessment and site evaluation, to in-depth examination of the characteristics and deployment of various technologies.

**Contents:** • Energy and development: concerns of the current millennium • Renewable energy utilization: desirability, feasibility, and the niches • Review of basic scientific and engineering principles • The solar energy resource • Solar photovoltaic technology • Solar thermal engineering • Elements of passive solar architecture • Wind energy resources • Introduction to wind turbine technology • Small hydro: resource and technology • Geothermal energy, tidal energy, wave energy, and ocean thermal energy • Bio-energy resources • Thermochemical conversion of biomass • Biochemical methods of conversion • Liquid fuels from biomass: fundamentals, process chemistry, and technologies

**Reprint 2016 • 914 pages • Hardback • 185mm × 240mm • 9788179932216 • ₹2250.00**



## Renewable Energy from Small & Micro Hydro Projects

### practical aspects and case studies

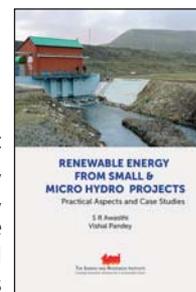
S R Awasthi and Vishal Pandey

The book introduces the process of developing hydropower projects in India. It emphasizes on the role of hydroelectric power as a part of water management and also in combating climate change. It discusses at length selection of suitable sites, hydro turbines, electrical systems, transportation, and salient features of dam and reservoir operation. The cost estimation, feasibility studies, promotional policies of the government and other organisations are provided. The book also covers the basics of fluid mechanics along with an overview of the hydropower development in India and the world. Important statistical data of India and the world are also given. It will be a useful guide and reference to students, designers, planners, consultants and field engineers.

**Contents:** • An overview of renewable and hydropower development • Hydrology and energy estimation • Civil structures and associated equipments • Basics of fluid mechanics • Hydro turbines • Hydrogenerators and excitation systems • Power plant auxiliaries and systems • Project execution and financial aspects • Environmental aspects of hydropower development • Policies for sustainable hydropower development

**2019 • 350 pages • Paperback • 180mm × 240mm • 9789386530929 • ₹550.00**

Forthcoming



## Solar Photocatalysis for Environmental Remediation

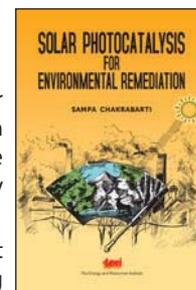
Sampa Chakrabarti

The book presents a review of research and pilot-scale efforts undertaken by scientists all over the world towards utilization of solar energy for environmental remediation. It gives a complete account of the solar photocatalytic degradation of pollutants present in wastewater and atmosphere and also discusses the solid-phase photocatalytic degradation of plastics in the form of composite. The text further describes the hydrogen generation by photocatalytic water splitting. Various solar collectors and reactors used especially for environmental remediation are also elucidated.

**Contents:** • Solar collectors and reactors for environmental applications • Solar energy for water and wastewater treatment • Solid-phase photocatalytic degradation of plastic films • Photocatalysis for control of air pollution • Solar water splitting • Conclusion

**2018 • 174 pages • Paperback • 160mm × 240mm • 9788179936603 • ₹275.00**

New



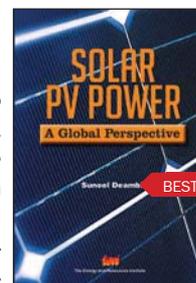
## Solar PV Power: a global perspective

Suneel Deambi

Solar photovoltaic (PV) technology has been successfully implemented in the remote regions of India for more than two decades now. It has various end-use applications such as lighting, pumping water, and charging battery for multiple uses. However, recently, there has been a growing bias towards the use of PV grid-connected power plants. The larger issue here is that of tracing a connection between solar energy and grid connectivity. *Solar PV Power: a global perspective* provides an insight into the basic understanding of PV grid power plants from various end-use considerations.

**Contents:** • Global energy scenario: an overview • Trends in photovoltaic technology • Current status of the international solar photovoltaic programme • Advent of megawatt-capacity photovoltaic power plants in India • Photovoltaic grid power plants: case studies • Issues, challenges, and opportunities • Way forward • Bibliography • Annexure: frequently asked questions

**Reprint 2015 • 288 pages • Hardback • 160mm × 240mm • 9788179933893 • ₹395.00**



BESTSELLER

## Wind Power: practical aspects

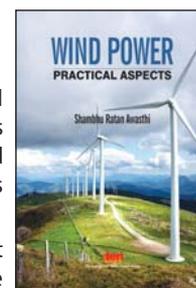
Shambhu Ratan Awasthi

This book focuses on developing wind power projects in India. It covers factors such as the selection of suitable sites, wind turbines, erection, and commissioning. The book also analyses and explains estimation of energy and cost. Various departments and organizations involved in the process of project approval and implementation are included in detail. The book explains grid management, repowering, development of offshore wind power projects and wind-solar hybrid power projects. Probable accidents in wind power projects, remedial measures, important statistical data of India and the world are also covered.

**Contents:** • Wind energy: a way out to combat climate change by public awareness and participation • Wind energy: nature's gift • Basic technology of electric power generation from wind • Suitable sites • Project approvals, government incentives, and finance arrangement • Selection of turbine and energy estimation • Project cost and tariff • Project implementation • Grid management • Role of mnre, niwe, state nodal agencies, and regulatory commissions • Repowering of old wind power projects • Offshore wind power development • Grid-connected wind-solar PV hybrid systems • Technology advancement including R&D • Failures in wind turbines and remedial measures • Important facts and figures

**2018 • 446 pages • Hardback • 160mm × 240mm • 9789386530028 • ₹995.00**

New



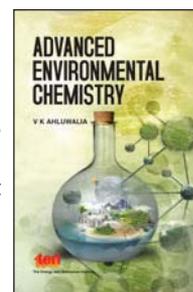
## Advanced Environmental Chemistry

V K Ahluwalia

*Advanced Environmental Chemistry* discusses environment and its biological cycles. The book provides students and professionals with a clear understanding of the science and its applications. It provides an in-depth introduction to the chemical composition of the atmosphere and water. The book also thoroughly explores important concepts such as soil pollution, radioactive pollution, and environment toxicology. All the chapters are followed by multiple choice and short answer questions.

**Contents:** • PART I: ENVIRONMENT: Environment • Biogeochemical cycles of environment / PART II: ATMOSPHERE: Chemical composition of atmosphere • Chemical and photochemical reactions in the atmosphere • Air pollution • Industrial pollution • Vehicular pollution • Instrumental techniques for estimation of various pollutants in the atmosphere / PART III: WATER: characteristics of water • Water pollution • Sources of water pollution • Management of water / PART IV: SOIL: formation of soil and its characteristics • Soil pollution • Control of soil pollution / PART V: RADIOACTIVE POLLUTION: radioactive pollution / PART VI: ENVIRONMENTAL TOXICOLOGY: environmental toxicology

**2017 • 306 pages • Paperback • 160mm × 240mm • 9788179936542 • ₹395.00**



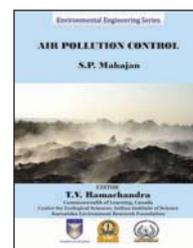
## Air Pollution Control

S P Mahajan

The air we breathe is being polluted by activities, such as burning coal, oil, and other fossil fuels; and manufacturing of chemicals. Air pollution can even occur from smaller, everyday activities such as cooking, space heating, and degreasing and painting operations. These activities add gases and particles to the air we breathe. When these gases and particles accumulate in the air in high enough concentrations, they can harm us, as well as our environment. *Air Pollution Control* deals with the various sources of air pollution and the associated environmental and health impacts.

**Contents:** • Introduction to air pollution • Air pollution: impact, legislation, and standards • Air pollution measurement • Prevention of air pollution • Air pollution meteorology • Air pollution modelling • Air pollution control—particulate matter I • Air pollution control—particulate matter II • Air pollution control: volatile organic compounds • Air pollution control: sulphur dioxide and oxides of nitrogen

**Reprint 2015 • 375 pages • Hardback • 180mm × 240mm • 9788179931868 • ₹350.00**



## Environmental Chemistry: principles and recent advances

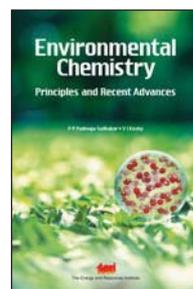
P P Padmaja Sudhakar and V J Koshy

*Environmental Chemistry: principles and recent advances* provides a holistic view of the chemical processes in all segments of the atmosphere. It discusses the various pollutants present in the atmosphere, including persistent and bioaccumulative chemicals, pesticides, nanoparticles, and chiral pollutants. Advances in treatment techniques, and analysis and monitoring of pollutants are other topics covered in detail. A chapter has been dedicated for a comprehensive discussion on green chemistry.

**Contents:** • Concept and scope of environmental chemistry • Fundamentals of chemical thermodynamics • Atmospheric chemistry • Atmospheric pollution • Hydrospheric chemistry • Water pollution • Lithosphere chemistry • Soil and soil pollution • Solid and hazardous waste management • Recent advances in treatment technologies • Green chemistry • Environmental toxicology • Radiation pollution • Global environmental disasters • Analytical techniques in environmental analysis

**2019 • 550 pages • Paperback • 180mm × 240mm • 9788179935224 • ₹650.00**

Forthcoming



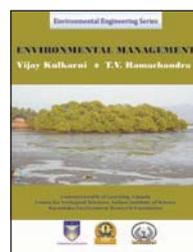
## Environmental Management

Vijay Kulkarni and T V Ramachandra

This book discusses in detail the various issues relating to environmental management, including the fundamentals; various environmental policies, legislations, and international treaties; the concept of environmental impact assessment; environmental auditing; life cycle assessment; various environmental management system standards: issues and techniques; and environmental design and economics.

**Contents:** • Principles of environmental management • Policy and legal aspects of environmental management • Environmental impact assessment • EIA documentation and processes • Environmental auditing • Life cycle assessment • Environmental management system standards • Environmental management techniques • Environmental design • Environmental economics

**Reprint 2018 • 394 pages • Hardback • 180mm × 240mm • 9788179931844 • ₹550.00**



## Environmental Pollution and Health

V K Ahluwalia

*Environmental Pollution and Health* expounds the three main types of environmental pollution—air, water, and land—and their effects on human health. It also focuses on photochemical air pollution, marine pollution, thermal pollution, noise pollution, and radioactive pollution and their effects on human health. The book also discusses the impact on the health of the human beings by factors other than pollutants. These factors include occupation of a person, stress, global warming, and ozone layer depletion. The book also deals with various types of wastes generated in different establishments and how they should be managed.

**Contents:** • Introduction • Air pollution • Water pollution • Soil pollution • Thermal and noise pollution • Radioactive pollution • Health hazards due to factors other than pollution • Management of wastes

**Reprint 2017 • 130 pages • Paperback • 160mm × 240mm • 9788179934616 • ₹225.00**



## Environmental Studies

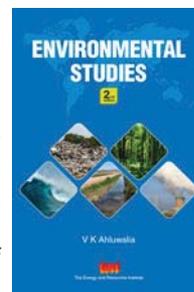
### Second Edition

V K Ahluwalia

Based on the latest University Grants Commission syllabus, the second edition of *Environmental Studies* has been thoroughly revised and updated. It discusses the various types of natural resources and the problems faced in conserving them and the effective management of resources for sustainable lifestyles. The book focuses on the concepts, structure and function of an ecosystem, threats to biodiversity and conservation of biodiversity, causes, effects and control measures of pollution, hazardous effects of human population on environment, and management of environment quality and the several types of pollution. A new chapter “Fieldwork” has been added in this edition.

**Contents:** • Multidisciplinary nature of environmental studies • Natural resources • Ecosystems • Biodiversity • Environmental pollution • Social issues and the environment • Population and the environment • Management of the environment • Fieldwork

**Reprint 2016 • 260 pages • Paperback • 160mm × 240mm • 9788179935712 • ₹325.00**



## Fundamentals of Waste and Environmental Engineering

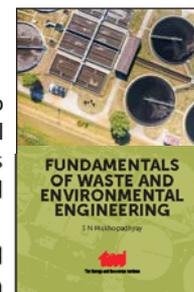
S N Mukhopadhyay

*Fundamentals of Waste and Environmental Engineering* deals with the global problem of waste generation. The book also discusses how principles of environmental engineering can be utilized to treat hazardous pollutants to eliminate their ill effects on the environment and how wastes can be transformed into value-added products. In order to make contents applicable, a dedicated chapter on waste generation and mitigation is provided which covers theoretical, numerical, and multiple-choice questions.

**Contents:** • Introduction to waste and environmental crisis • Water, wastewater, and non-aqueous liquids • Solid/semisolid waste treatments/management for business developments • Environmental variance and effects of pollution on living human genomic body / Bioreactors • Pollution: parameters, abatements, and treatments • Air pollution and its abatement • Wastes to value-added products • Waste heat treatments and utilizations • Theoretical, numerical, and multiple-choice questions on wastes and treatments

**2019 • 300 pages • Paperback • 180mm × 240mm • 9789386530103 • ₹665.00**

New



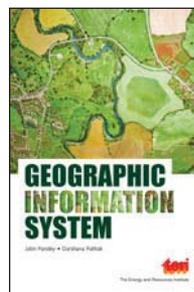
## Geographic Information System

Jatin Pandey and Darshana Pathak

This TERI title introduces fundamentals of geographic information system (GIS) to its reader. GIS—as an information system—aims to organize complex interrelation between different layers of information through a process of gathering, analysing, processing, storing, and presenting the spatial data and images available through different sources. As a computer-based information system, GIS integrates hardware, software, and data for capturing, managing, analysing, and displaying all forms of geographically referenced information.

**Contents:** • Introduction to geographic information system • Raster and vector data • Attribute database and overlay • Remote sensing and digital image processing • Applications of GIS • Numerical problems

**Reprint 2017 • 200 pages • Paperback • 160mm × 240mm • 9788179935378 • ₹200.00**



### Other Books on Environmental Engineering

**Arsenic Removal from Contaminated Groundwater** by Sirshendu De (ISBN: 9788179933831) Price: ₹995

**Tectonics of the Eastern Continental Margin of India** by K S R Murthy (ISBN: 9788179934081) Price: ₹1495

## Green Chemistry and the Environment

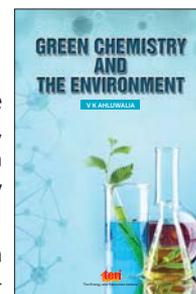
V K Ahluwalia

*Green Chemistry and Environment* deals with the prevention and minimization of environmental pollution, based on the Twelve Principles of Green Chemistry. The book discusses the major forms of environmental pollution such as air, water, soil, radiation, and noise pollution; their causes; and prevention. Application of green chemistry as a tool in the production line for the development of environmentally benign products forms the core of the book. How the pollution caused by deforestation, agricultural activities, and industrial production can be mitigated is also discussed extensively.

**Contents:** • Green chemistry and understanding its twelve principles • Planning a green synthesis • Metrics for greenness of a process • Products synthesized using principles of green chemistry • Environmental pollution • Green chemistry: an aid in preventing environmental pollution

**2019 • 146 pages • Paperback • 160mm × 240mm • 9789386530189 • ₹395.00**

New



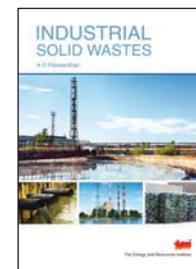
## Industrial Solid Wastes

A D Patwardhan

Solid wastes, liquid effluents, and gaseous emissions are produced during industrial activities. Liquid effluents and gaseous emissions are taken care of adequately by industries to meet specified discharge standards. On the other hand, solid wastes receive relatively less attention as they are considered “wastes” for which the industry has no further use. In fact, these so-called “wastes” consist of the right material, but are in the wrong place. Disposing them of without giving any thought to their reuse and recycling, or recovering useful end products from them, puts a severe strain on our limited natural resources.

**Contents:** • Organic Industrial Solids • Inorganic industrial solids • Treatment plant sludges

**Reprint 2014 • 130 pages • Hardback • 160mm × 240mm • 9788179935026 • ₹275.00**



## Management of Municipal Solid Waste

T V Ramachandra

*Management of Municipal Solid Waste* discusses the ways to salvage the situation through efficient management of solid wastes—from waste generation to disposal. The various processes, such as waste generation, collection, storage, processing, recovery, transport, and disposal, are explained with the help of case studies. The book discusses reduction of waste at the source and endeavours to foster implementation of integrated solid waste management systems that are cost-effective and protect human health and the environment.

**Contents:** • Introducing municipal solid waste management • Waste generation aspects • Waste collection, storage and transport • Waste disposal • Waste processing techniques • Source reduction • Recovery of biological conversion products • Incineration and energy recovery • Hazardous waste: management and treatment • Integrated waste management (IWM)

**Reprint 2018 • 340 pages • Hardback • 180mm × 240mm • 9788179931875 • ₹450.00**



## Municipal Water and Wastewater Treatment

Rakesh Kumar and R N Singh

The book provides an overview of the engineering approaches towards ensuring water quality, with an emphasis on fundamental principles. It presents water quality objectives and the chemical, physical, and biological processes necessary for designing and managing drinking water and wastewater treatment plants. Theory and conceptual designs of systems for treating municipal wastewater and drinking water are discussed. The basic principles of common treatment processes are also discussed.

**Contents:** • Water as a resource: some related issues • Municipal wastewater generation • Water treatment processes • Wastewater treatment: physical and chemical processes • Wastewater treatment: biological methods • Wastewater reuse • Sludge and Septage: treatment and disposal wastewater disposal into natural waterbodies • Wastewater disposal on land—land application • Selection, planning, and implementation guidelines for water and wastewater treatment systems

**Reprint 2015 • 284 pages • Hardback • 180mm × 240mm • 9788179931882 • ₹425.00**



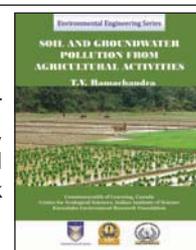
## Soil and Groundwater Pollution from Agricultural Activities

T V Ramachandra

*Soil and Groundwater Pollution from Agricultural Activities* introduces the major agricultural activities in India and their impact on soil and groundwater. It lists the basic aspects of agricultural activities undertaken and introduces soil properties, classification and processes, and groundwater characteristics, movement, and recharge aspects. It further discusses soil and groundwater pollution from various sources, impacts of irrigation, drainage, and fertilizer and pesticide. Finally, the book dwells upon conservation and management of groundwater and soil.

**Contents:** • Agricultural activities and environmental impacts • Soil—processes and properties • Groundwater hydrology • Soil and groundwater pollution • Irrigation and drainage: impacts and remedial measures • Environmental impacts of fertilizers • Pesticides and environmental impacts • Monitoring of soil and groundwater pollution • Soil and groundwater treatment • Conservation and management of soil and groundwater • Model answers to learning activities • Distance learning in environment engineering

**Reprint 2015 • 372 pages • Hardback • 180mm × 240mm • 9788179931851 • ₹525.00**



# ENVIRONMENTAL ENGINEERING

## Treatment of Urban Solid Waste: engineering and integrated management

Sampa Chakrabarti

This book describes treatment of urban solid waste with reference to the principles or steps of ISWM especially in the Indian context. Both engineering and management practices have been discussed in detail. Characteristics of urban solid waste are influenced by the economic and social status of the generators and the climatic conditions. Therefore Indian scenario of the generation and treatment of urban solid waste is explained in the backdrop of international status. Since the field is an interdisciplinary one, environmental and public health issues are also addressed. Latest technologies as well as current rules and regulations applicable in India are compiled for ready reference.

**Contents:** • Integrated solid waste management for urban solid waste • Separation, collection, and transportation of solid waste • Characterization of urban solid waste for selection of treatment process • Treatment of municipal solid waste • Engineered sanitary landfill for municipal solid waste • Management of electronic waste • Treatment and management of plastic waste • Treatment of biomedical waste • Treatment of construction and demolition waste • Urban solid waste management in developing countries: challenges and opportunities

2019 • 450 pages • Paperback • 180mm × 240mm • 9788179936580 • ₹550.00

New



# ECOLOGY, ENVIRONMENT, AND FORESTRY

## Agroforestry with Commercial Clonal Plantations in India

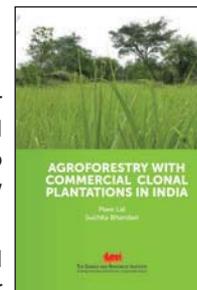
Piara Lal, Suchita Bhandari

*Agroforestry with Commercial Clonal Plantations in India* provides complete scientific information and technical details for selection and cloning of candidate plus trees, clonal plant production in modern nurseries, field testing of clones and final selection and deployment of genetically superior clones for Eucalypts, Poplars, Casuarinas and other species. The book also makes specific recommendations for further improvements in all areas related to tree improvement, development of new superior clones, holistic development of agroforestry and required policy reforms.

**Contents:** • Status of forest resources in India • Soils and management of soil fertility • Basic concepts of forest genetics and tree improvement • Clonal agroforestry plantations in India – Historical perspective • Understanding extension • Clonal poplar plantations • Cloning of eucalyptus • Clonal plant production nurseries – Eucalyptus • Clonal eucalyptus plantations - Improved package of practices • Clonal casuarina plantations • Improving productivity of clonal plantations • Research & development priorities for clonal forestry • Clonal agroforestry – a sustainable livelihood option for small and marginal tribal farmers in Odisha: a case study • Holistic development of agroforestry in India

2019 • 250 pages • Hardback • 160mm × 240mm • 9789386530936 • ₹650.00

Forthcoming



## Ecology and Environment

R N Bhargava, V Rajaram, Keith Olson, and Lynn Tiede

*Ecology and Environment* has delved in depth on the subject and brings a broad perspective of the various issues. Following the curriculum of University Grants Commission, the book covers different types of ecosystems on the earth. It deals with the effective and sustainable use of natural resources which includes water, forest, mineral resources in the ground and productive land. The book explains the population trends in the world and India, and how it is impacting the environment. The role of public participation in promoting environmental sustainability is explored as well.

**Contents:** • Multidisciplinary nature of environmental studies • Sustainable ecosystems • Natural resources • Biodiversity • Population and its impact • Pollution, sources, and effects • Social issues and public participation to minimize impacts of development • Climate change and its impacts • Environmental legislation and enforcement • Education for environmental awareness • Projects and activities • Indian and international case studies • References • Index • About the authors

2016 • 326 pages • Hardback • 160mm × 240mm • 9788179934104 • ₹595.00



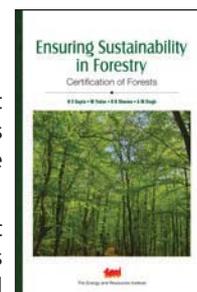
## Ensuring Sustainability in Forestry: certification of forests

H S Gupta, M Yadav, D K Sharma, and A M Singh

This book details the concepts and approaches required to meet desired international standards of forest certification. It brings together important issues related to forest certification which need to be applied and utilized in the context of forests in India in the present scenario. It also focuses on economic factors, greening of certification processes, and the interface between technical and business knowledge.

**Contents:** • Sustainability and forestry • Concept and evolution • Various schemes • Potential and status of certified forest • Products: global and Indian scenarios • Process of certification of forests • Expectations of different stakeholders • Economics of forest certification • Addressing sustainability through certification of forests • Certification of forests and environmental conservation • Different certification systems: convergence issues • Sustainable forest management, forest certification and climate change regulations: confluence of concepts • Developing certification of forests in India: rationale and options • Challenges of certification • Future of forest certification

2013 • 289 pages • Hardback • 160mm × 240mm • 9788179934951 • ₹995.00



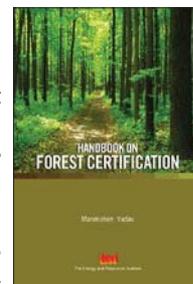
## Handbook on Forest Certification

Manmohan Yadav

*Handbook on Forest Certification*, a thorough research work, discusses in detail the concepts and approaches required to meet the desired international standards of forest certification. It covers those aspects of forest certification that are practised globally and need to be applied in the emerging context of forests in India. The book focuses on changing global perspective on forest resources, importance and need for sustainable management of forests, increasing consumer awareness, and dealing with preferences for certified forest products.

**Contents:** • Status of forest resources • Sustainability and forestry • Management of forests in India: A historical perspective • Essentials of forest certification: concept, evolution, elements, and process • Forest certification schemes • Extent of forest certification and certified timber market • Certification of non-timber forest products • Framework for forest certification in India • Stakeholder expectations and economics of forest certification • Sustainability and forest certification • Challenge and potential of forest certification

**2016 • 328 pages • Hardback • 160mm × 240mm • 9788179933008 • ₹995.00**



## Introduction to Environmental Sciences

R S Khoiyangbam and Navindu Gupta (eds)

Environmental sciences is a vast and multidisciplinary science that involves the study of natural resources of land, water, and air. *Introduction to Environmental Sciences* comprehensively covers numerous aspects of this vast subject. The book focuses on the causes of environmental problems and methods and ways of mitigating these causes. It covers topics such as biostatistics, principles of analytic method, disaster management, various chemical processes operating in the environment, greenhouse gases emissions, global warming, among others. The book will prove beneficial to those involved in environmental studies, environmental management, community health practice, to mention some.

**Contents:** • Definition, scope, and importance of environmental sciences • Environmental chemistry • Forest resources • Air pollution • Water pollution • Soil pollution • Noise pollution • Bioremediation • Restoration ecology • Environmental biotechnology • Sustainable development • Demography • Principles of analytic methods • Remote sensing and GIS • Environmental management • Disaster management • Environmental assessment and planning • Environmental legislation • Environmental biostatistics • Energy resources: fossil fuels • Energy resources: alternative energy • Wildlife resources • Global environmental issues • Environmental education and awareness • Analysis of water and soil pollution • Analysis of noise pollution

**Reprint 2017 • 428 pages • Hardback • 160mm × 240mm • 9788179934555 • ₹595.00**



## OCEANS: the new frontier

Pierre Jacquet, Rajendra K Pachauri, and Laurence Tubiana (eds)

*Oceans: the new frontier* explores how human community insistently pushes the oceans' limits, seeking to exploit all of their varied resources—minerals, fisheries, fuels, and genetic material. The ocean frontier is constantly being redefined by new discoveries, technologies, national strategies, and ecological imperatives. Increasing dependence of humanity on the resources of the oceans has blurred the boundaries between mainland and oceans.

**Short Contents:** • Negotiating our future with the oceans • An environment to discover: marine biodiversity assessments • The oceans: an inexhaustible source of energy? • A globalized maritime economy: at what price? • The rise of the cyborg fish: on attempts to make fisheries manageable • Ocean governance: a fragmented regulatory framework • A regional approach to marine environmental protection: the "regional seas" experience • Maritime shipping at the crossroads of economic and environmental challenges • On the curbing of illegal, unreported and unregulated fishing

**2011 • 238 pages • Paperback • 190mm × 230mm • 9788179934029 • ₹655.00**



## Policy Intervention Analysis: environmental impact assessment

Ritu Paliwal and Leena Srivastava

This book evaluates the adequacy of post project monitoring (PPM) process in India and its effective implementation with a focus on the industrial sector. *Policy Intervention Analysis: environmental impact assessment* investigates the reasons for poor compliance and gives corrective measures for corrective PPM. It identifies specific measures to improve environmental conditions and provides an action plan that will help strengthen the monitoring and enforcement mechanism based on specific regional concerns.

**Contents:** • EIA process in India and its constraints • Comparative review of EIA • Haldia: A case study • Concept of EIA follow-up and practice in India • Environmental quality assessment • Enforcement mechanisms • Questionnaire analysis • Conclusion and policy implications • Enforcement mechanisms • Policy implications and conclusion

**2014 • 228 pages • Hardback • 180mm × 240mm • 9788179934999 • ₹525.00**



## Redefining Forestry for Effective Livelihoods

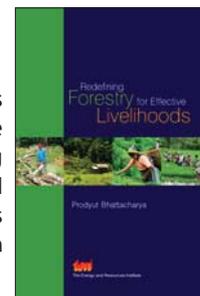
Prodyut Bhattacharya

New

This book brings out key issues relevant to forest and livelihood, with a special focus on non-timber forest produce. It gives a detailed analysis about how forests play an important role in maintaining earth's ecosystem and, thus, the vital balance of flora and fauna. The book also discusses the contribution of forests to the national economy. It also focuses on emerging research issues arising out of various policies and their impact on the forest-dependent poor. The book provides the essential findings, arguments, linkage of forestry sector with other development scenario and the possible way out for the future. This comprehensive book is a useful reference for researchers, policymakers, and development practitioners working in the area of forest and livelihood.

**Contents:** • Forest resources and their ecosystem • Forest, poverty, and tribal livelihoods • Forest-dependent livelihoods • Forest and food security • Livelihoods around ecotourism areas • Forest governance scenario with special reference to forest-based livelihood • Livelihood contribution from forestry sector projects • Way forward to forest and livelihoods

2018 • 388 pages • Hardback • 160mm x 240mm • 9788179935316 • ₹655.00



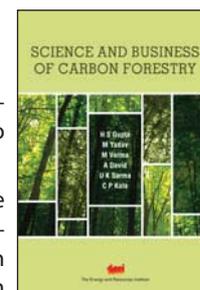
## Science and Business of Carbon Forestry

H S Gupta, M Yadav, M Verma, A David, U K Sarma, and C P Kala

*Science and Business of Carbon Forestry* is a comprehensive guide on biodiversity, conservation and development, and regulation-related issues relevant to forests. It gives detailed guidance on the development, marketing, and financials related to projects in the forestry sector, with a focus on addressing problems related to climate change and forestry.

**Contents:** • Implications of climate change • Global efforts and mechanisms to cope with climate change • Forestry and climate change • Voluntary mechanisms for forestry carbon projects • Formulation of forestry carbon projects for CDM or voluntary markets • Economics of forestry carbon projects • Financial aspects of forestry carbon projects • Marketing aspects of forestry carbon projects • Livelihood issues in forestry carbon projects • Policy and legal aspects of forestry carbon projects • Forestry carbon projects and biodiversity conservation • Adapting to climate change: role of forests and the forestry sector • Future opportunities for Indian forestry sector: the post-2012 scenario

2014 • 296 pages • Hardback • 160mm x 240mm • 9788179934623 • ₹595.00



## The Environment

V K Ahluwalia

New

*The Environment* covers the basic components of environment, ecology, biomes, and biodiversity. The book gives an analytical understanding of the topics. While the book covers major international topics, it has a strong focus on India too. The book will help candidates appearing for competitive examinations such as civil services. It is also extremely useful for readers interested in environment science, environment chemistry, and related subjects.

**Contents:** • Basic components of the environment • Ecology • Biomes • Biodiversity • Environmental degradation, pollution, and conservation • Environmental disasters and their management • Natural resources • Major crops and cropping patterns in India • Environmental engineering

2018 • 254 pages • Paperback • 160mm x 240mm • 9789386530127 • ₹395.00



## Towards Agricultural Change?

Pierre Jacquet, Rajendra K Pachauri, and Laurence Tubiana (eds)

This book focuses on agriculture and its relation to development, food and the environment. At the end of the 2000s, a consensus has emerged that points to the urgent need for massive investment in the agricultural sector, which is (once again) viewed as one of the prime engines for development and food security, as well as for poverty reduction.

**Short Contents:** • Agriculture and food security: taking the measure of a global challenge • Food crisis: a reshuffling of stakeholders • Agriculture and transition in a globalized world • The role of agriculture in African economic development: what do we disagree on? • Land, peasants and migrants: the heart of China's development • Global conditions for the future of agriculture in the "anthropocene" • Can agricultural intensification save forested land? A review and case study in Indonesia • Climate change and food security. A crucial test for humanity? • Agricultural research: a global innovation system at the core of strategic choices • An ethnography of cotton production and exchange in a Turkish village

2012 • 264 pages • Paperback • 190mm x 230mm • 9788179934432 • ₹655.00



### Other Books on Ecology, Environment, and Forestry

**Afforestation in India:** dimensions of evaluation by H S Gupta (ISBN: 9788179934630) Price: ₹445

**Oceans:** the new frontier by Pierre Jacquet (ISBN: 9788179934029) Price: ₹655

## Autumn Showers

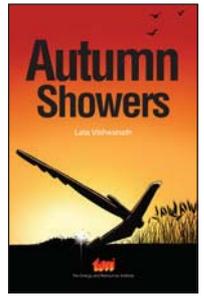
Lata Vishwanath

While growing up in northern India, away from her native place, the author was often intrigued by her agriculturist grandfather's constant letters to the Indian government. More than a decade after his death, she delves deep into the letters he left behind and unravels a fascinating saga of her agriculturist family in her ancestral village in the southern state of Karnataka.

In an evocative narrative that spans over a century, the author takes the readers on a journey to her ancestral land and depicts her grandfather's life through the various anecdotes she has collected over time. A dedicated farmer, he passionately fought for farmers' rights till the end of his life. Part memoir, part history and part reportage bordering on fiction, Autumn Showers narrates the dynamic tale of the quintessential Indian society woven closely around agriculture and also details the challenges agriculture today faces in India and the world.

2018 • 210 pages • Paperback • 140mm × 215mm • 9788179935323 • ₹295.00

New



## Climate Change and Sustainable Transport

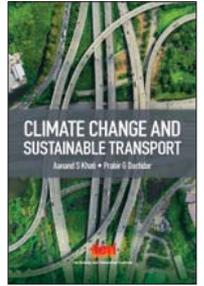
Aanand S Khati, and Prabir G Dastidar

Climate change is no longer a subject of scientific and academic importance; the well-being of the earth and human race is deeply dependent on it. With rapid growth of population and accelerated urbanization, the limited resources of earth have come under great stress. *Climate Change and Sustainable Transport* provides a comprehensive knowledge about the different dimension of climate system, climate change and role of transport in climate change, its genesis and different migration options.

**Contents:** • Climate change • Transport: the life line • Transport sector in India • Substantiality and sustainable transport • Transport and climate change • Railways: a major and sustainable mode of transport • Mitigation and adaptation • New recent development

2019 • 350 pages • Hardback • 160mm × 240mm • 9789386530110 • ₹1195.00

Forthcoming



## Disaster Management, Corporate Social Responsibility and Conservation Issues

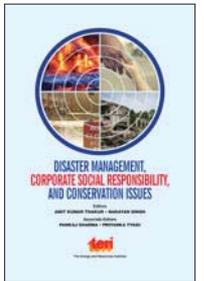
Amit Kumar Thakur and Narayan Singh (eds)

This book deals with the fundamental principles and current practices in the field of disasters. The book covers various environmental challenges and issues related to natural disasters that affect all forms of life. It discusses how disasters can be managed and the role corporate social responsibility can play in addressing the issues. The book also provides conservation steps that can help in mitigating disasters. Experts from different fields have contributed diverse, technical, and best concepts. Through the writings, the book will make readers better prepared for the challenges of disaster management and strive towards sustainable development.

**Short Contents:** • A review of flood disaster in Assam state of India: causes and impacts • Rampant tourism an ecological disaster in waiting: case study from Ladakh • A retrospective analysis of earthquake hazards and hydropower development in Indian himalayan region • Factors causing landslides and importance of parameters during landslide hazard zonation: experiences from kumaun himalayas • Major natural disasters and livelihoods improvement of disaster-affected areas through horticulture in Uttarakhand • Effects of climate change on agriculture: Indian perspective • Potentially important but neglected roadside and wasteland medicinal plants of Uttarakhand • Natural disasters in hilly areas: special reference to people living in indian himalayan region • Ambient air pollution and its sources in the semi-rural sites in the northwestern indian himalayas • Diversity analysis, indigenous uses and current status of medicinal plants in mohalkhad watershed of Himachal Pradesh, northwestern himalayas

2018 • 240 pages • Hardback • 160mm × 240mm • 9788179936597 • ₹595.00

New



## Environment Chronicles II: the best of TerraGreen

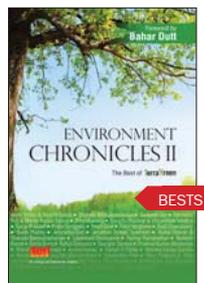
A TERI Publication

This book covers, in a panoramic sweep, all the formidable environmental challenges that we face. It is a grim reminder of our disquieting environmental reality; yet the stories here inspire hope and provide examples of the building blocks for a sustainable world. Environment Chronicles II is the go-to resource for readers who want to know, in holistic terms, about what's ailing the environment as well as the solutions for a greener future. Backing up its claims with several unassailable facts, this book reinforces the urgency for sustainable development, particularly for conservation, resource-use efficiency, and waste minimization—all ideas that are now picking up the much-needed momentum.

**Short Contents:** • Uranium mining in Meghalaya (J D Syiemlieh) • Sustainable trends in fashion (Swati Prabhu) • Greening of financial institutions (Swagata Dey) • Heat waves (Suruchi Bhadwal) • Critically endangered wetlands (Subir Ghosh) • Encountering aquatic hypoxia (Tincy Varghese) • Rejuvenating the Ganga basin (Sujit Chakraborty) • Eye of the tiger (Anuradha Dutt) • Highways for wild animals (Arefa Tehsin) • Understanding public spaces (Ramya Ramanathan) • Uttarakhand's battling interests (Mukesh Rawat) • Fodder production in Himachal Pradesh (Sarita Brara) • Fostering cultural responses (Rahul Goswami) • Are we food secured? (Ranjan K Panda) • Sustainable diets (Maneka Sanjay Gandhi) • The alarming Delhi smog ( Pradeep Kumar Mukherjee) • Lifestyle diseases (Harish Alagappa) • Ghost villages of Uttarakhand (Rajshekhar Pant) • Brus' return (Nava Thakuria) • Urban health resources centre (Paromita Pain) • Ecofeminism in India (Rina Mukherji) • Shale gas (Prabir Sengupta) and much more...

2018 • 272 pages • Paperback • 150mm × 230mm • 9789386530059 • ₹295.00

New



BESTSELLER

## Eighteen tides and a tiger

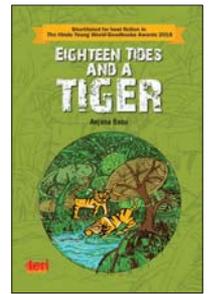
Anjana Basu

The Sunderbans, a tangle of forests where, according to legend, ghost tiger roar at the dead of night making the mangroves shiver. However, the tiger Rohan finds is real and needs to be rescued. Rohan, on his first internship, is lost in the middle of this haunted land very unlike the hilly Corbett country he is familiar with. And he needs to be rescued too. Help comes in the shape of a girl who never seems to turn a hair at tigers or marshes! And as always, there is a mystic presence close at hand.

Rohan heard a murmur of, "Mama!" and one or two of the sailors started rocking back and forth themselves in a kind of prayer. He looked wordlessly at the sailor next to him, whose fingers were tight around his clay pot of tea. "Bagh," the sailor whispered. "Tiger!" The top deck continued to rock in a steady kind of motion as if something might be pacing up and down on it.

There was another tiger. It appeared like a streak of fire out of the scrub trees springing past Rohan's shoulder, so close that he felt the heat of the big body and its scent filled his nostrils. It had missed him because he had been bending...

**Reprint 2018 • 146 pages • Paperback • 120mm x 180mm • 9788179936498 • ₹250.00**



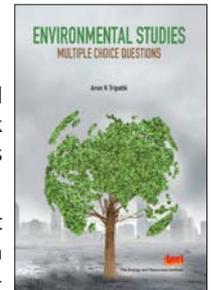
## Environmental Studies: multiple choice questions

Arun K Tripathi

This book contains more than 1000 multiple choice questions covering various environment-related topics, such as ecology and environment, biodiversity, natural resources, eco-marketing, environmental finance, air pollution, and water pollution. The book will prove beneficial for academicians, students pursuing courses on environmental studies, professionals, aspirants of various competitive exams, and stakeholders in the environment sector. It can also be handy for various quiz programmes.

**Contents:** • Environment: the lifeline and habitat for living organisms • Fundamentals of environment • Ecology and environment • Environmental economics and regulations • Environmental impact assessment • Pollution and disaster management • Air pollution • Water pollution • Ecosystem • Biodiversity • Natural resources • Climate change • Management of solid and hazardous wastes • Eco-marketing • Environmental finance • Sustainable development and corporate social responsibility • General questions

**2016 • 358 pages • Paperback • 160mm x 240mm • 9788179935828 • ₹295.00**



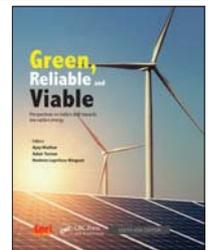
## Green, Reliable and Viable: perspectives on India's shift towards low-carbon energy

Ajay Mathur, Adair Turner, and Noemie Leprince-Ringuet (eds)

This book brings together the valued perspectives from key stakeholders in these transitions. Experts and practitioners from the mobility, clean energy, agriculture and energy efficiency sectors, amongst others, have shared their outlook on challenges that lie in the way of energy transitions in India, and offered solutions and next steps to move the country forward on the decarbonisation pathway. The overarching message is clear: the Indian energy sector of the future will be noticeably different from what it is today.

**Contents:** • Energy transitions in India: The global context • Shifting to green energy systems • Making the green shift reliable • Making the green shift viable

**2019 • 108 pages • Paperback • 150mm x 215mm • 9789386530882 • ₹595.00**



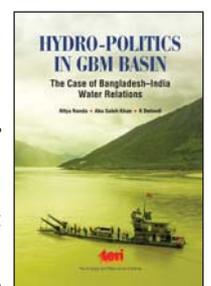
## Hydro-politics in GBM Basin: the case of Bangladesh-India water relations

Nitya Nanda, Abu Saleh Khan, and K Dwivedi

Given that South Asia is fast becoming a water-stressed region and that population and economic growth make the situation more challenging, an integrated management of water resources becomes even more important. *Hydro-politics in GBM Basin: the case of Bangladesh-India water relations* focuses on the water management issues of Bangladesh and India. Based on hard data and wide consultation with a large number of stakeholders in India and Bangladesh, the book examines the issues carefully and attempts to suggest a path to deal with the challenges. Apart from covering the economic, ecological, and political (domestic and international) issues, it deals with treaty implications from international water-related case studies.

**Contents:** • Issues in water resources management in GBM basin • Understanding multilateral and bilateral water cooperation: frameworks, approaches, and instruments • Water resources management in India: with special reference to GBM basin • Water resources management—Bangladesh perspective • Water resources management: towards international cooperation • Annexure 1 • Annexure 2 • Annexure 3

**Reprint 2017 • 180 pages • Hardback • 150mm x 230mm • 9788179935705 • ₹595.00**

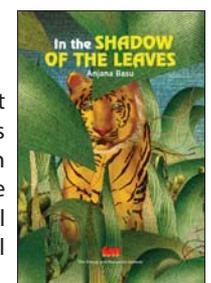


## In the Shadow of the Leaves

Anjana Basu

Rohan and his mother are holidaying in the Kumaon Hills. Rohan should be practising Maths, he has failed in his exam, but he is spending time reading Jim Corbett's Man-eaters of Kumaon and wandering in the hills with fearless Manjul, who herds cows. Rohan admires the way she jumps streams like a little cat and her knowledge of the woods. Peace and tranquility, in the hills, is lost when they hear that a tiger has been killing cattle in the nearby villages. A mysterious man with a moustache materializes at night and seems to spellbind the children and tigers. Rohan is convinced that it is Jim Corbett's ghost. Manjul disagrees. Whoever the mysterious man is, he is on a mission—save the tiger from poachers and herd it back into the national park. The result is a story of mystery and magic.

**Reprint 2018 • 200 pages • Paperback • 120mm x 180mm • 9788179935385 • ₹250.00**



## India's Resource Security: Trade, Geopolitics and Efficiency Dimensions

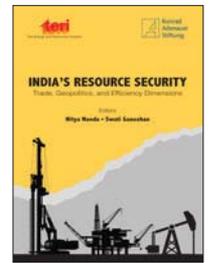
Nitya Nanda and Swati Ganeshan (eds)

New

The book highlights the major aspects that resource security encompasses: sustainable resource development and extraction, production and use, trade and investments, geopolitical considerations, and intergovernmental and multilateral cooperation. It also discusses resource efficiency intensifying globally, the potential scope for responsible resource development at the extraction and production levels, enhanced efficiency in resource use, and recycling and reuse at the end-use level to strengthen the framework for achieving resource security. The book also deals with multilateral approaches, various forms of cooperation—including the possible formation of a resource bank—focused resource-based engagement in South Asia, and the means to enhance bilateral relations with India's relevant allies and partners.

**Contents:** • Resource security and the global trade dynamics • Accessing resources from global market: geopolitical challenges and strategies • Can India revive global energy and commodity demand: some empirics • Impact of export restrictions on export of natural resources • Securing resources through global cooperation • Ensuring resource security through international cooperation on resource bank • Resource security and regional cooperation in south asia • India–Russia partnership in the energy sector • Resource security for India in an uncertain global market: Is it time for Africa? • Resource geopolitics: a strategic approach • Energy security: securing India's energy resource base • Strategic and critical minerals: A geopolitical analysis for energy, defence, and ICT sectors • Resource efficiency and resource management • Efficient mining exploration and production for India's resource efficiency and security • Understanding the linkages between secondary resource management and resource security in the Indian context • Indian rare-earth Industry: need and opportunity for revival and growth • Understanding the linkages between secondary resource management and resource security in the Indian context • Indian rare-earth industry: need and opportunity for revival and growth

2018 • 168 pages • Hardback • 160mm × 240mm • 9789386530004 • ₹595.00



## Introduction to E-Waste Management

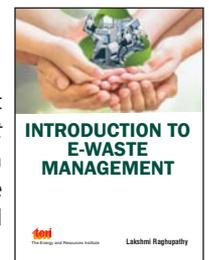
Lakshmi Raghupathy

Forthcoming

With the availability of new technology, electronic equipment are discarded at regular intervals. These electronic equipment contain toxic and carcinogenic compounds that pose a threat to the environment. *Introduction to E-Waste Management* discusses types of e-waste and their characterization. The book details the global e-waste regulations such as Basel Convention and E-Waste Management Rules 2016. In addition, e-waste recycling and their environmentally sound management are discussed in detail. It also provides an overview of the business models for e-waste management. The other topics discussed include restrictions on use of hazardous substances, e-waste handling, sustainable e-waste management among others.

**Contents:** • E-Waste • Regulatory framework • Extended producer responsibility (EPR) • E-Waste handling • Restrictions on use of hazardous substances (RoHS) • E-Waste recycling • Environmentally sound management of e-waste • Environment and social issues • Case studies • Business models for e-waste management • Sustainable E-Waste Management

2019 • 350 pages • Hardback • 160mm × 240mm • 9789386530196 • ₹625.00



## Know All About: reduce, reuse, recycle

Yoofisaca Syngkon Nongpluh and Guy C Noronha

*Know All About: reduce, reuse, recycle* is a fresh attempt to engage you in a global problem. The book is informative and meant to help lay persons to come to grips with an all too familiar phenomenon—garbage. The book traces the history of waste and its generation—from the earliest civilizations till today—and the various efforts to find solutions. It is no technical treatise but told in a simple way. It has information, guidelines and tips on how you can help to reduce the problem that at times seems to be overwhelming us.

**Contents:** • A load of rubbish – What a waste! • Just have to have that! • DIET to save the world – Reduce • Pass it forward – Reuse • The circle of life – Recycling • Some myths and criticisms of recycling • Recycling is a success story • You can do it too

Reprint 2018 • 150 pages • Paperback • 140mm × 220mm • 9788179933916 • ₹295.00



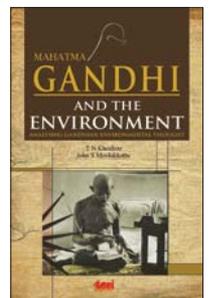
## Mahatma Gandhi and the Environment: analysing Gandhian environmental thought

T N Khoshoo and John S Moolakkattu

The book presents a selection of Mahatma Gandhi's views on the environment and elaborates on their relevance today. It is particularly relevant now when the threat of climate change looms large and natural resources are fast depleting. The book is of interest to all concerned with protecting the earth's environment and its natural resources. The book presents Mahatma Gandhi's views on sustainable use of resources and minimal damage to the environment for the sake of future generations. The need for a significant synergy between rural development and industrial development has also been highlighted.

**Contents:** • Nature and humankind • Yogic practice and the environment • The role of woman, man, and society • Unity in diversity • Western industrialism • The weakest link: village and villager • Sustainable development • Hind swaraj: the gandhian manifesto of ecological living • Gandhi and science • Situating satyagraha in mainstream conflict resolution theory • Gandhi and the contemporary discourse on decentralization • Gandhi and the dalit question • Towards a new order: the new thinking • Selected quotes of Mahatma Gandhi on environment and development

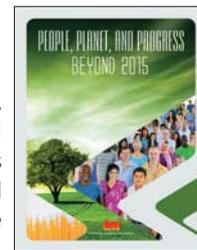
Reprint 2019 • 160 pages • Hardback • 140mm × 215mm • 9788179932230 • ₹250.00



## People, Planet, and Progress Beyond 2015

TERI Publication

This book examines six critical issues of the Planet (climate change, ozone layer depletion, loss of biodiversity, desertification, unsustainable use of natural resources, and environmental pollution) and six crucial issues of the People (food security and safety, health and well-being, education and learning, sustainable habitat, energy for all, and social justice and equity), reviews the Progress made by various regions and countries of the world on each of these issues, and analyses the challenges and opportunities ahead, particularly in the context of post-2015 Global Development Agenda, ushered by the Paris Climate Agreement, UN Sustainable Development Goals, and Sendai Framework for Disaster Risk Reduction.



**Contents:** • Climate change • Depletion of ozone layer • Loss of biodiversity • Desertification • Unsustainable use of natural • Resources • Environmental pollution • Food security and safety • Health and well-being • Education and learning • Sustainable habitat • Energy for all • Social justice and equity • Assessing progress of millennium development goals • Sustainable development goals: Towards agenda 2030 • Measuring progress

**2017 • 462 pages • Paperback • 220mm × 280mm • 9788179935927 • ₹1500.00**

## Sustainability of Business in the Context of Environmental Management

Kamlesh Pritwani

The book compares the legal, financial, economic, industrial, and social behavioural aspects. Out of these aspects, industrial aspect in view of 'environmental management' is discussed in detail. *Sustainability of Business in the Context of Environmental Management* also explores the forces driving the changing relationship between business and society and corporate leadership reacting to environmental challenges. Finally, the book restates the concept of increasing profitability through societal development.

**Contents:** • Introduction • Literature review • Research methodology • Sustainable business • Environmental management • Indian context: a case of Indian companies • Results and discussion: An analysis • Recommendations • Inferences

**2016 • 250 pages • Hardback • 160mm × 240mm • 9788179933015 • ₹495.00**



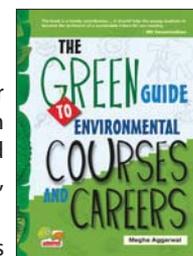
## The Green Guide to Environmental Courses and Careers

Megha Aggarwal

As India gradually moves towards a "green" economy, new avenues of employment are opening up for today's youth. For students thinking about future course and career options, this one-of-its-kind handbook offers a rich body of information required to turn a green interest into a future opportunity. From environmental engineering, environmental science, and environmental law to agriculture, climate science, and zoology, it profiles a range of undergraduate and postgraduate courses, and the broad spectrum of careers they lead to.

**Contents:** • What to study: a course checklist for students • Where to study: a college checklist for students • Green courses • Design and planning • Finance and management • Humanities Science and engineering • What to pursue: a career checklist for students • Green careers • Useful resources

**2016 • 104 pages • Paperback • 140mm × 215mm • 9788179935699 • ₹150.00**



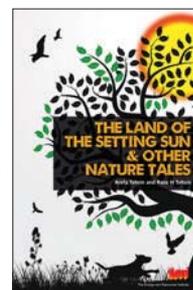
## The Land of the Setting Sun & Other Nature Tales

Arefa Tehsin and Raza H Tehsin

You must've read about the magic of the wizards. But have you read about the magic of the wild? Become friends with various wild creatures, know about their life-cycles and be a part of their adventurous and deadly journeys through eight stories.

**Contents:** • The land of the setting sun • The six riddles • The nectar of the angels • The steeds of witches • The owl-man coin • Hanu and sheru • The best kept secret • The one thousandth cheetah

**Reprint 2018 • 145 pages • Paperback • 160mm × 240mm • 9788179935330 • ₹295.00**



### Other Books on Environmental Studies and Sustainable Development

**Arsenic Removal from Contaminated Groundwater** by Sirshendu De (ISBN: 9788179933831) Price: ₹995

**Tectonics of the Eastern Continental Margin of India** by K S R Murthy (ISBN: 9788179934081) Price: ₹1495

**Capabilities and Governance of Nanotechnology in the Developing World** by Shilpanjali Deshpande Sarma (ISBN: 9788179935675) Price: ₹500

**Environment Best Practices: Cleaner is cheaper** volume 6 by R K Narang (ISBN: 9788179932339) Price: ₹995

**E-waste** by Rakesh Johri (ISBN: 9788179931530) Price: ₹880

**Leopard in the Laboratory** by Anjana Basu (ISBN: 9788179933701) Price: ₹250

**Lucy and the Train: Tryst with Sustainability** by Anandajit Goswami (ISBN: 9788179936412) Price: ₹190

**Reducing Inequalities: a sustainable development challenge** by Rémi Genevey (ISBN: 9788179935309) Price: ₹655

**The Jamun Tree and other Stories on the Environment** by Pamela Chatterjee (ISBN: 9788179934401) Price: ₹295

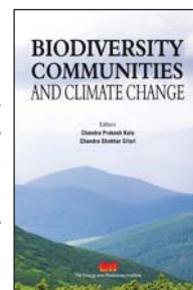
## Biodiversity, Communities, and Climate Change

Chandra Prakash Kala and Chandra Shekhar Silori (eds)

*Biodiversity, Communities, and Climate Change* focuses on various principles of biodiversity conservation, effects of climate change, and role of communities at various levels and landscapes. The book draws on the experiences of academicians and eminent scientists in their field. The chapters are in the form of case studies revolving around key themes. The issues covered in the chapters range from local level to regional level and cover concerns for communities in livelihood security, poverty alleviation and conservation, and effects of climate change on biodiversity and communities and the possible solution for conserving the biodiversity and ecosystem.

**Contents:** • Section I: assessment of biodiversity • Section II: community, livelihood, and management of biodiversity • Section III: climate change and biodiversity conservation

**Reprint 2017 • 358 pages • Hardback • 160mm × 240mm • 9788179934425 • ₹895.00**



## Carbon Capture, Storage, and Utilization

A possible climate change solution for energy industry

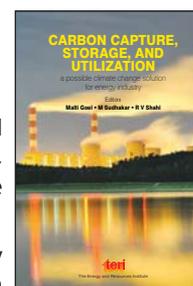
Malti Goel, M Sudhakar, and R V Shahi (eds)

Carbon capture and storage (CCS) is among the advanced energy technologies suggested to make the conventional fossil fuel sources environmentally sustainable. It is of particular importance to coal-based economies. *Carbon Capture, Storage, and Utilization: a possible climate change solution for energy industry* deals at length with the various aspects of carbon dioxide capture, its utilization and takes a closer look at the earth processes in carbon dioxide storage.

**Contents:** • SECTION I: POLICY • Carbon, capture and storage: can or should we be so indifferent? • Policy and regulatory interventions in abatement of CO<sub>2</sub> footprints in India • Carbon capture, storage, and utilization—an appraisal of current situation in coal-based economies • TERI's scoping study on carbon capture and storage in the Indian context • Capturing CO<sub>2</sub> by physical and chemical means  
SECTION II: CARBON CAPTURE AND STORAGE • CO<sub>2</sub> recovery from power plants by adsorption: R & D and technology • Geological sequestration of CO<sub>2</sub> in saline aquifers—an indian perspective • Options for CO<sub>2</sub> storage and its role in reducing CO<sub>2</sub> emissions • CO<sub>2</sub> sequestration potential of indian coalfields • Carbon sequestration potential of the forests of north-eastern India

SECTION III: CO<sub>2</sub> FIXATION AND UTILIZATION • Prospects in biomimetic carbon sequestration • Bio-sequestration of CO<sub>2</sub>—potential and challenges • Cyanobacteria in carbon dioxide utilization and as biosurfactants and flocculants • Production of multi-purpose fuels through carbon capture and sequestration • CO<sub>2</sub> storage and enhanced oil recovery • Real-term implications of carbon sequestration in coal seams • CO<sub>2</sub> storage, utilization options, and ocean applications

**2015 • 250 pages • Hardback • 160mm × 240mm • 9788179935682 • ₹950.00**



## Carbon Sequestration by Coastal Floral Community

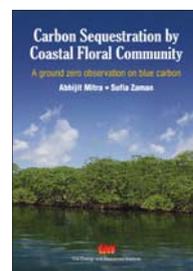
A ground zero observation on blue carbon

Abhijit Mitra and Sufia Zaman

The book focuses on some of the important issues of carbon sequestration. Apart from standardizing ecological approach in estimating blue carbon in various vegetation compartments, this book also presents a few important case studies, which serve as the basics of hands-on-scientific training in estimating the magnitude of stored carbon in mangroves, salt marsh, seagrass, seaweeds, and phytoplankton.

**Contents:** • The blue soup of the planet earth • Carbon dioxide reservoir in the planet earth • Mangrove community • Seagrass and saltmarsh grass community • Seaweeds of the coastal zone • Phytoplankton community • Molluscan community: a unique carbon reservoir

**Reprint 2017 • 428 pages • Hardback • 160mm × 240mm • 9788179935514 • ₹995.00**



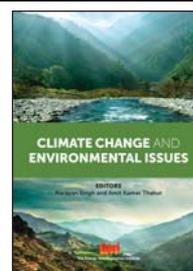
## Climate Change and Environmental Issues

Narayan Singh and Amit Kumar Thakur (eds)

This book provides a holistic coverage of the basics of climate change, changes in biodiversity, phytosociological changes, and thus proposes a comprehensive set of solutions to resolve various issues, related to environment and climate change. *Climate Change and Environmental Issues* would be beneficial for researchers, policymakers, academicians, environmentalists, and university students.

**Contents:** • Climate change and availability of pasturelands in trans-himalaya: A case study from changthang, ladakh • Anthropogenic activities vis-à-vis climate change • Climate change, cultivation practices, and mitigation in the present scenario • Impacts of hydroelectric projects on floristic diversity in Himachal Pradesh, northwestern himalaya • Climate change and its interlinked factors affecting Uttarakhand • Evaluation of emission and air quality status in Uttarakhand, India • Climate change and nordostachys jatamansi: a comparative study on nursery and polyhouse grown plants • Dominance-diversity and species richness changes due to altitudinal gradient in lesser himalayan forest of Uttarakhand, India • Utilization of spices and condiments in Uttarakhand, western himalayas, India: current status and future prospects • Farmers' attitude towards market intervention schemes of farm produce in Himachal Pradesh and Punjab • Cordyceps sinensis: the illustrious history in traditional medicine system • Structure and functioning of traditional agroforestry system of kumaun (western) Himalaya, India • Rural communities in sustainable forest management • Musk deer and its conservation in Uttarakhand: future prospects • Ozone depletion and its harmful effects on environment and humans • Water pollution status: sources and remediation

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## Climate Change and Disease Dynamics in India

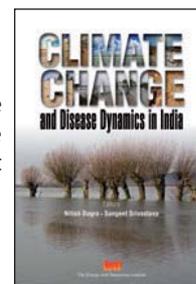
Nitish Dogra and Sangeet Srivastava (eds)

The book is divided into three main aspects: fundamentals, impacts, and applied. By examining these aspects and more, the book seeks to explore the multitude of issues related to climate change and disease dynamics, right from the basics to the bedside to the boardroom. Each chapter reviews relevant global and India-specific evidence and also the implication of that knowledge in programmatic terms and policy implications.

**For Executive Summary visit <http://bookstore.teri.res.in>**

**Contents:** • Fundamentals section • Global environmental change • Climate epidemiology • Climate change attributable burden of disease • Modelling for future health impacts • Indian climatology in the context of human health • Evidence: climate extremes outcomes section • Thermal stress • Climate disasters • Sea level rise • Evidence section: climate sensitive diseases section • Malnutrition • Vector-borne diseases • Diarrhoeal diseases • Respiratory diseases • Mental health • Emerging and re-emerging diseases • Applied section • Geographic information system • Resources and infrastructure • Lifestyle • Vulnerability and adaptation • Economics of scaling up • Health communication

**2012 • 456 pages • Hardback • 160mm × 240mm • 9788179934128 • ₹995.00**



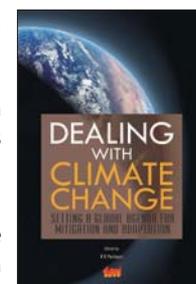
## Dealing with Climate Change: setting a global agenda for mitigation and adaptation

R K Pachauri (ed.)

Climate change is the most important existential threat that humanity faces at the moment. There is an urgent need for a framework for international cooperation, research and development, technology, finance, market mechanisms, as well as consensus on the role of business in addressing the issue. This book presents authoritative contributions from international experts, laying out the issues, the options, and the prospects of mitigation and adaptation.

**Contents:** • The scientific assessment of climate change: new findings • Carbon budget proposal • Challenges in climate change adaptation • Research and development priorities for addressing climate change (mitigation and adaptation • Climate change: a problem or an opportunity • The last decade—convergence of environmental and financial markets: a practitioner's view • The global climate change regime: a time for consolidation or fundamental reform • Climate change debate: view from India • Emission reduction targets: a Pandora's Box in climate negotiations

**Reprint 2016 • 256 pages • Hardback • 150mm × 230mm • 9788179932773 • ₹695.00**



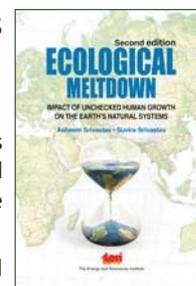
## Ecological Meltdown: impact of unchecked human growth on the earth's natural systems Second Edition

Asheem Kumar Srivastav and Suvira Srivastav

In second edition of *Ecological Meltdown: impact of unchecked human growth on the earth's natural systems*, the authors discuss the destruction of biodiversity and ecosystems due to human actions. Apart from warning about the impending ecological meltdown and analysing the causes behind it, the book deals with the solutions that need to be urgently adopted by the global civil society and national governments.

**Contents:** • Beyond limits • The fast breeding machines • One earth, many worlds • Time for energy transition • The (un) protected areas • Victims of human hunger • Treating deep wounds – is first aid enough? • The relevance of multilateral environmental agreements • Revisiting sustainable development

**Reprint 2017 • 310 pages • Hardback • 160mm × 240mm • 9788179935729 • ₹550.00**



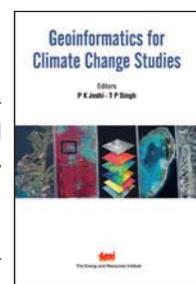
## Geoinformatics for Climate Change Studies

P K Joshi and T P Singh (eds)

*Geoinformatics for Climate Change Studies* discusses the art of using geoinformatics technology for investigating, monitoring, documenting, and understanding the impacts of climate change. This book provides information on the concepts and uses of geoinformatics and focuses on filling the gap in the available literature on the subject by bringing together concepts, theories, and experiences of experts in this field.

**Contents:** • A GIS-based framework for modelling and global design of earth systems • Geoinformatics for climate change research • Reactions of mountain glaciers to climate change—a remote sensing approach • Geoinformatics and the mapping of lands vulnerable to sea level rise • Geospatial tools to assess forest ecosystems under climate change trajectories • Geoinformatics for comprehensive impact assessment and analysis of climate change for integrated water resources management • Climate–Population–Energy: scenarios for 2050 • Geoprocessing for soft mapping of sparse and inaccurate evapotranspiration data • Impact of climate variability on human health • Geo-information-based approach for monitoring climate-induced land degradation in Nigeria

**Reprint 2013 • 490 pages • Hardback • 160mm × 240mm • 9788179934098 • ₹995.00**



### Other Book on Climate

**Costing Adaptation:** preparing for climate change in India by Anil Markandya (ISBN: 9788179933886) Price: ₹995

## Energy-efficient Buildings in India

Mili Majumdar (ed.)

Accelerated urbanization imposes immense pressure on the dwindling energy sources and fragile ecosystems. Yet, the resource crunch confronting energy supplies can be alleviated if we design and develop future buildings by incorporating sound concepts of energy efficiency and sustainability. Covering 41 projects from India's various climatic zones, this book provides thorough insights into the context, techniques, and benefits of energy-efficient buildings.

**Contents:** • Energy efficiency in architecture: an overview of design concepts and architectural interventions • Climatic zone: cold and cloudy • Climatic zone: cold and sunny (Degree College and Hill Council Complex) • Climatic zone: composite • Climatic zone: hot and dry • Climatic zone: moderate • Climatic zone: warm and humid

Reprint 2017 • 278 pages • Paperback • 210mm × 280mm • 9788185419824 • ₹995.00



## Improving Earthquake and Cyclone Resistance of Structures

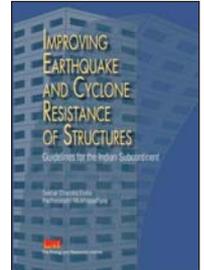
### Guidelines for the Indian Subcontinent

Sekhra Chandra Dutta and Parthasarathi Mukhopadhyay

*Improving Earthquake and Cyclone Resistance of Structures: guidelines for the Indian subcontinent* is an attempt to introduce guidelines for the types of building structures frequently observed and built in the Indian subcontinent as well as in other developing countries. The guidelines are meant for both architectural and structural features, and include constructional aspects as well.

**Contents:** • Introduction • **Section 1:** Earthquakes • Occurrence of earthquake: a geological perspective • Performance of a building during earthquakes: the philosophy • Typical moderate earthquakes: lessons learnt from case studies • Guidelines for brick masonry buildings • Guidelines for ductile detailing of reinforced concrete buildings • Guidelines for elevated tanks and dams lifeline structures • Quantification of seismic design forces • **Section 2:** Cyclones • Occurrence of tropical cyclones: the North Indian Ocean • Performance of buildings during cyclones: the philosophy • Sidr-affected non-engineered buildings: lessons learnt from case studies • Cyclone-resistant buildings: general guidelines • **Section 3:** Remedial Measures • Rapid visual screening • Retrofitting buildings • Selected bibliography

2012 • 400 pages • Hardback • 160mm × 280mm • 9788179933022 • ₹995.00



## Sustainable Building: design manual (Volumes One and Two)

A TERI Publication

The first volume of *Sustainable Building: design manual* focuses on policy and regulatory mechanisms, while the second volume expounds on the process of "green architecture" by combining concepts and technologies with best practices for each integral design component. These serve as a basis for assessing building performance and meeting sustainability goals through appropriate strategies and regularity controls. Case studies of Gurgaon and a set of real-time case studies from Spain and the UK are dealt in the first volume. A must-have for architects, designers, urban planners, policymakers, engineers, and students.

**Contents: Volume 1** • Introduction • Market mechanisms to drive sustainable development: case study of UK • European experience • Case study: Gurgaon • Case study—London Borough of Merton • Exploration of new avenues of action, financing, and tax regulations for the biosphere reserve: case study-Lanzarote • Facilitation of sustainable building development in Gurgaon • Recommendations for amendments in building by laws for Gurgaon **Volume 2** • Introduction: sustainability and building design • Climatic data • Site planning • Efficient water management and wastewater treatment techniques • Solid waste management • Passive solar design • Building materials • Building technologies • Energy systems • Case studies • Checklist for sustainability

**Vol. 1: Reprint 2014 • 160 pages • Paperback • 210mm × 300mm • 9788179930526 • ₹501.00**

**Vol. 2: Reprint 2018 • 314 pages • Paperback • 210mm × 300mm • 9788179930533 • ₹695.00**



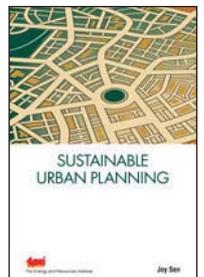
## Sustainable Urban Planning

Joy Sen

The book deals with the urban planning process that will help students gain insights of the Indian context students. It presents in three sections a set of interwoven discussions. Section one operates on the corpus of planning reality to disentangle the sutras of fundamental dimensions of sustainability and the interrelationship between these sutras to re-explain a working framework of the dynamics of sustainable planning in India. Section two expands on each of the dimensions, explaining their divergent parameters and their indispensable roles in the making of such a framework. Section three synthesizes all of them to form the framework itself.

**Contents: Section 1:** Initiating a framework • Sustainable development in Indian urban and metropolitan contexts: the constituent dimensions **Section 2:** Dimensions of the framework • Assessment of livability variations in the Indian context • Impact of affordability thresholds on policies of basic infrastructure and facility planning in India • Applicability of inequality variations in understanding Indian urban and regional agglomerations **Section 3:** Proposing the framework • Towards a framework of sustainable development in the Indian context

Reprint 2018 • 344 pages • Hardback • 160mm × 240mm • 9788179933244 • ₹950.00



## SUSTAINABLE ARCHITECTURE

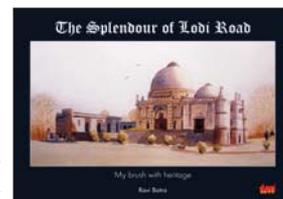
### The Splendour of Lodi Road: my brush with heritage

Ravi Batra

In the words of Ravi Batra, 'There is perhaps no other road in Delhi, or even the whole world, which connects, over a distance of just four kilometres, a unique heritage — gateways, mosques, tombs, gardens and even a step-well and a bridge. They were built during successive empires and over several centuries, with different architectural styles and building materials. They include Humayun's Tomb — a UNESCO World Heritage site. The text provides historical, architectural, and anecdotal information on each monument.

**Contents:** • A concise history of Delhi and the northern region Tomars – Chauhans – Khaljis – Tughlaqs – Sayyids – Lodis – Mughals – the British – Independent India • A primer on Architecture • The Humayun Tomb Complex • Nizamuddin Basti • The 'monumental' artists in India

**2012 • 100 pages • Hardback • 152mm × 229mm • 9788179934463 • ₹895.00**



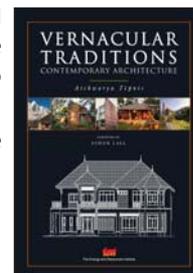
### Vernacular Traditions: contemporary architecture

Aishwarya Tipnis

The book *Vernacular Traditions: contemporary architecture* tries to ascertain whether the vernacular can be used as a model for sustainable development, combining valuable lessons from the past with equally valuable modern technology to solve the problems of the twenty-first century. The introductory essay focuses on the concept of sustainability and attempts to highlight the inherent sustainability in the vernacular architecture of India.

**Contents:** • Understanding the vernacular • The Indian vernacular architecture • The contemporary vernacular architecture • Case studies on sustainable architecture • Glossary • Bibliography

**Reprint 2018 • 250 pages • Paperback • 160mm × 240mm • 9788179934579 • ₹1195.00**



## LIFE SCIENCES

### Bioanalytical Techniques

Abhilasha Shourie and Shilpa S Chapadgaonkar

Bioanalytical techniques form an integral part of applied biology and biomedical sciences. The book provides understanding of the concept and working principles of various bioanalytical techniques used in biomedical sciences, environmental studies, life sciences, pharmaceutical analysis, molecular biology, and biotechnological research, as well as the various instruments used in these processes. Divided into 12 chapters, *Bioanalytical Techniques* provides a comprehensive account of microscopy, centrifugation, chromatography, electrophoresis, spectroscopy. It also focuses on two main topics: radioisotope and immunodiagnostic techniques. Techniques in molecular biology and recombinant DNA technology have also been described in detail.

**Contents:** • General principles of analytical instrumentation • Solutions and buffers • Microscopy • Cell disruption • Centrifugation • Chromatographic techniques • Electrophoresis • Spectroscopy I • Spectroscopy II • Radioisotope techniques • Immunochemical techniques • Molecular biology techniques

**2015 • 411 pages • Paperback • 180mm × 240mm • 9788179935293 • ₹395.00**



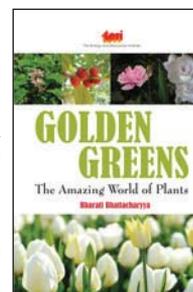
### Golden Greens: the amazing world of plants

Bharati Bhattacharya

The book gives a detailed description about the plants that are found world over. It meticulously describes the forms, habits, and different facets and peculiarities of plants. Informative, thought-provoking and painstakingly researched, the book includes a number of case studies of rare and endangered plants species and emphasizes upon the importance of their conservation. The trees and plants have long been part of our folklore, myths, epics, rituals, books, arts, and daily life. While asserting their ecological importance, the book systematically lays out the sociocultural roots of the various plants.

**Contents:** • Leguminous beauties • Known but unknown • Mesmerizing tulips • An exotic palm from madagascar • The flying machines • A rainbow of natural colours • They conquered the world • Beans of repute • Bamboo: the giant grasses • Wealth of the herbal world • Antique and glorious: The proteaceae family • The green gun • The unusual, vulnerable, rare, and threatened • List of botanical names of plants • Names of some plants in different indian languages

**2016 • 288 pages • Paperback • 150mm × 230mm • 9788179934418 • ₹595.00**



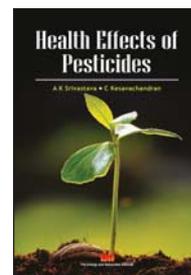
## Health Effects of Pesticides

A K Srivastava and C Kesavachandran

*Health Effects of Pesticides* covers various aspects of the use of pesticides, their behaviour, degradation, and impacts on the agrarian environment. It focuses on pesticide poisoning incidents and farm practices in developing countries. The health impacts of pesticides, including neurological, respiratory, and dermal effects, are examined. Other repercussions caused as a result of pesticides, including reproductive abnormalities and cancer, are comprehensively discussed. Effects of pesticides on general health and agrarian health surveys have been touched upon.

**Contents:** • Introduction • Concerns about pesticides in the agrarian environment • Pesticide poisoning incidents and farm practices in developing countries • Pesticides used in developing countries • Health impacts of pesticides • Agrarian health surveys • Preventive strategies • Conclusion

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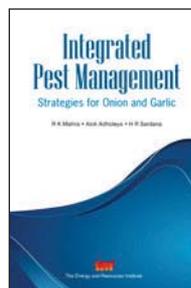
## Integrated Pest Management: strategies for onion and garlic

R K Mishra, Alok Adholeya, and H R Sardana

Onion (*Allium cepa* L.) and garlic (*Allium sativum* L.) are the most important *Allium* species cultivated worldwide and are used as vegetable, salad, and spice in our daily diet. These crops are widely cultivated for domestic consumption as well as for export purposes. They are attacked by many insect pests and diseases, which vary with region, season, and variety. This lowers the quality and yield, thereby increasing the cost of production and reduction in export potential. *Integrated Pest Management: strategies for onion and garlic* discusses methods and tools used to minimize the incidence and severity caused by diseases and insect pests. It also focuses on the symptoms of diseases caused by various pathogens.

**Contents:** • Introduction • Integrated pest management: key strategies • Major diseases and their management • Major insect pest and their management • Nematodes and mites and their management

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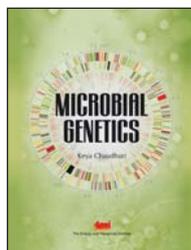
## Microbial Genetics

Keya Chaudhari

*Microbial Genetics* focuses on the current state of knowledge on the genetics of bacteria, bacteriophages, and recombinant DNA technology and its applications in a way understandable to the students, teachers, and scientists. The book expounds on the specialized aspects of microbial genetics and technologies, keeping in mind the syllabi of different Indian universities at the postgraduate level. Latest information on microbial genetics has been outlined in a lucid manner.

**Contents:** • **Part I:** Microbial genetics • Basic molecular genetics: DNA structure, replication, and repair • Basic molecular genetics: gene expression and regulation • Methods of genetic analysis • Conjugation • Transformation • Transduction • Techniques for studying bacteriophages • Plasmids • Genetic rearrangements and their evolutionary significance • **Part II:** Recombinant DNA technology • Recombinant DNA technology • Construction of DNA libraries • Protein expression in bacteria • Sequencing of DNA and proteins • Synthesis of oligonucleotides • Site-specific mutagenesis • Protein engineering • Gene isolation and synthesis • Polymerase chain reaction • DNA fingerprinting and footprinting • RAPD, RFLP, and AFLP • Restriction mapping • Application of recombinant DNA technology • Containment and ethics in genetic engineering

2014 • 568 pages • Paperback • 180mm × 240mm • 9788179933237 • ₹550.00



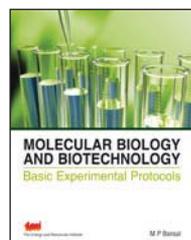
## Molecular Biology and Biotechnology: basic experimental protocols

M P Bansal

*Molecular Biology and Biotechnology: basic experimental protocols* is a compilation of methods and techniques commonly used in biomedical and biotechnological studies. The book aims to provide ample support to both students and faculty while conducting practical lessons. Four sections are covered in this book—genomics, proteomics, quantitative biochemistry, and bioinformatics. A concise introductory note accompanies each protocol/method described for better comprehension. The book also details basic equipment used in these two fields. Every topic discussed is supported by actual methods and their expected results, and accompanied with relevant questions.

**Contents:** • **Part I:** Microbial genetics • Basic molecular genetics: DNA structure, replication, and repair • Basic molecular genetics: gene expression and regulation • Methods of genetic analysis • Conjugation • Transformation • Transduction • Techniques for studying bacteriophages • Plasmids • Genetic rearrangements and their evolutionary significance • **Part II:** Recombinant DNA technology • Recombinant DNA technology • Construction of DNA libraries • Protein expression in bacteria • Sequencing of DNA and proteins • Synthesis of oligonucleotides • Site-specific mutagenesis • Protein engineering • Gene isolation and synthesis • Polymerase chain reaction • DNA fingerprinting and footprinting • RAPD, RFLP, and AFLP • Restriction mapping • Application of recombinant DNA technology • Containment and ethics in genetic engineering

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### Other Books on Life Sciences

**Biotechnology for Food and Nutritional Security** by Vibha Dhawan (ISBN: 9788179930564) Price: ₹425

**Genetically Modified Organisms: emerging law and policy in India** by K D Raju (ISBN: 9788179931264) Price: ₹795

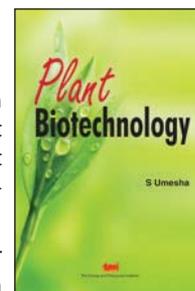
## Plant Biotechnology

S Umesha

Plant biotechnology is a precise science which allows for the transfer of only one or a few desirable genes. It is through this precise science that plant breeders are able to develop crops with specific beneficial and desirable traits. Thus, plant biotechnology has emerged as an important aspect of agriculture. This book comprehensively covers almost every aspect of plant biotechnology—from tissue culture and its applications to plant transformation technology and molecular marker-aided breeding. It also addresses the most recent advances in this much needed science.

**Contents:** • Tissue culture • Tissue culture applications • Plant transformation technology • Plant genetic engineering for productivity and performance • Molecular marker-aided breeding • Applications of plant biotechnology • Greenhouse and green home technology • Biotechnological applications • Important issues in plant biotechnology

**2017 • 424 pages • Paperback • 160mm × 240mm • 9788179935033 • ₹795.00**



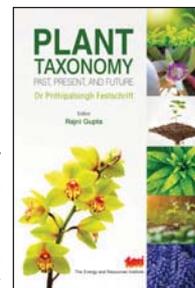
## Plant Taxonomy: past, present, and future

Rajni Gupta (ed.)

*Plant Taxonomy: past, present, and future* contains various contributions from stalwarts in the field of plant taxonomy, which focus on different aspects of this field. Each contribution has been written based on thorough research, and includes recent developments such as molecular taxonomy and barcoding. Interesting aspects of naming plants, speciation, molecular aspects of plant identification, and e-flora have been dealt with in an elaborate manner. In addition, a chapter is dedicated to the genesis of botanical names and the meaning of the names of plants found in Delhi.

**Contents:** • Ethnobotanical Noah's Ark • Plant nomenclature: an overview • Plants of Delhi: Scientific names and their meaning • Species and speciation • Modern tools for identification of plants • Plant taxonomy in plant genetic resource management • Indigenous knowledge of plants and biopiracy in India • Herbaria and data information systems in plant taxonomy • Phylogenetic systematics • Plant anatomy in relation to taxonomy • Chemotaxonomy • Cytotaxonomy and its evolution of Orchidaceae and Cyperaceae • Palynology: timeline • Role of molecular markers in evaluation of plant diversity • E-flora: the future of floristic documentation

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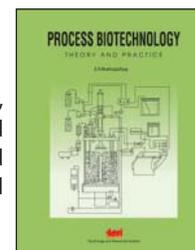
## Process Biotechnology: theory and practice

S N Mukhopadhyay

This book is intended for undergraduate, postgraduate, and PhD students in the field of process biotechnology. It covers biological, ecological, chemical, and biochemical engineering topics related to the subject. It provides much needed theory-based solved numerical problems for practice in quantitative evaluation of various parameters relevant to process biotechnology. It can be used as a self-study text for practising biochemical and chemical engineers, biotechnologists, applied and industrial microbiologists, cell biologists, and scientists involved in bioprocessing research and other related fields.

**Contents:** • Section I: Background on Life Formation • Prebiotic science of chemicals for life • Biotic chemistry • Cell biology and microbiology • Chemical and biochemical engineering principles • Section II: Bioprocess Engineering System: Tutorials • Upstream process biotechnology: solved numerical problems • Enzyme engineering and technology: solved numerical problems • Process recovery and purification: solved numerical problems • Unsolved numerical problems

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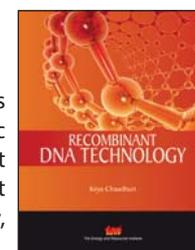
## Recombinant DNA Technology

Keya Chaudhuri

*Recombinant DNA Technology* focuses on the current state of knowledge on recombinant DNA (rDNA) technology and its applications. The book provides comprehensive information on the principles and concepts of rDNA technology or genetic engineering, protein expression of cloned genes, polymerase chain reaction (PCR) amplification of DNA, restriction fragment length polymorphism (RFLP), amplified fragment length polymorphism (AFLP), DNA fingerprinting, and the most recent siRNA technology. It is useful for postgraduate students and teachers in the areas of molecular biology, biotechnology, genetics, microbiology, life sciences, pharmacy, agriculture, and basic medical sciences.

**Contents:** • Recombinant DNA technology • Methods for creating recombinant DNA molecules • Properties of restriction endonucleases • Screening of recombinant DNA molecules • Construction of DNA library • Sequencing by sanger's method • Protein production in bacteria • Site-directed mutagenesis • Restriction fragment length polymorphism • Polymerase chain reaction DNA fingerprinting • RNAi and siRNA technology • Molecular biology methods • Features of commonly used vectors • Isolation and purification of plasmid vectors • Cloning in cosmid vectors • Construction of genomic DNA libraries in cosmid vectors • Enzymes used in molecular cloning • Agarose gel and polyacrylamide gel electrophoresis • Detection and extraction of DNA from gels • Revision questions • Bibliography • Glossary • Colour plates

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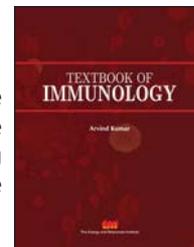
## Textbook of Immunology

Arvind Kumar

The book provides in-depth but concise coverage of all the major topics of immunology in simple and lucid manner. The text of the book is illustrated with simplified well-labelled diagrams and pictures to make the subject easily understandable and interesting to read. Extensive cross-referencing between chapters is used to reinforce and broaden the understanding of the core concepts of immunology. This book might be an ideal source of comprehensive, authoritative, and up-to-date information for those who work in the field of immunology.

**Contents:** • Basics of immunity • Composition of immune system • Antigens and immunogens • Antigen determinants • Antigen and antibody interaction • Major histocompatibility complex • Complement system • Regulation of adaptive immune responses • Cell-mediated immunity and cytotoxicity • Allergic reactions or hypersensitivity • Autoimmunity • Immunity to infections and tumours • Immunology of graft rejection or transplant rejections • Cytokines

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## LIBRARY SCIENCE

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Smart future: knowledge trends that will change the world

Shantanu Ganguly, P K Bhattacharya, Projes Roy, Pallavi Shukla, and N Deepa (eds)

The ICDL Conferences are recognized as one of the most important platforms in the world where noted experts share their experiences. Many DL experts have contributed thought-provoking papers in ICDL 2016. These important papers are reviewed and conceptualized into ICDL on different areas of DL Proceedings. The Proceedings have two volumes and over 1000 pages.

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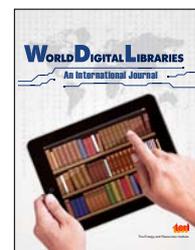
*World Digital Libraries* is an international peer-reviewed biannual journal. It publishes quality research papers that present original theoretical approaches. It also publishes experimental case studies related to digital library developments and maintenance and disseminates digital information focusing on research and integration of knowledge at the interface of resources and development.

**Editor:** P K Bhattacharya, TERI, New Delhi

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**Editor:** P K Bhattacharya, TERI, New Delhi

**Frequency:** Quarterly (4 issues per year—March, June, September, and December)

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**Editor:** Nitya Nanda, TERI University, New Delhi

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### Asian Journal of Water, Environment and Pollution

Primarily due to high population density, many regions of the continent face severe problems of water pollution on local as well as regional scale and these have to be tackled with a pan-Asian approach. However, the available literature on the subject is generally based on research done in Europe and North America. Therefore, there is an urgent and strong need for an Asian journal with its focus on the region and wherein the region-specific problems are addressed in an intelligent manner.

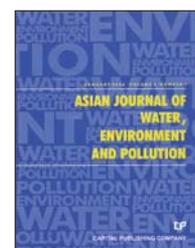
**Editor:** Prof. V Subramanian, Jawaharlal Nehru University, New Delhi

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# MAGAZINES

## TerraGreen

*TerraGreen* is India's most respected monthly magazine dedicated to informing and enlightening its readers on issues of environment, energy, and sustainable development. Launched in 2004, *TerraGreen* has made an indelible impression on the minds of readers, both in India and across the world. Today, it enjoys a readership of over 40,000 and a subscriber base of close to 5,000. Helping the magazine along in its endeavour to take issues of absolute importance to the people is the fact that it is the only publication of its kind in the market; not only does it inform and educate, it does so in a subtle and reader-friendly manner. After all, the aim is to reach as many people as possible!



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A TERI Publication

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**Contents:** Energy and environment: an overview **Energy supply:** Coal and lignite • Petroleum and natural gas • Power • Renewable energy **Energy demand:** Agriculture • Industry • Transport • Household energy **Local and global environment:** Air quality and pollution • Solid waste management • Water resource management • Land and forest resource management • Climate change

**2019 • 350 pages • Hardback • 220mm x 280mm • 9789386530868 • ₹1995.00**



# NEWSLETTER

## Mycorrhiza News

*Mycorrhiza News* provides a forum for dissemination of scientific information on mycorrhizal research. It carries state-of-the-art papers by eminent scientists, brief accounts of new approaches/techniques, and latest literature references.

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