

Biogas Technology

Towards sustainable development

Authors: 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.

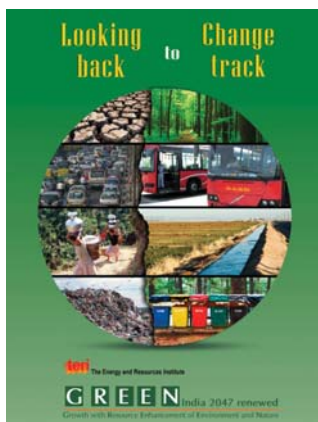
Key features

- Discusses the biomethanation process in detail.
- Highlights the utility of biogas as a renewable source of energy.
- Explains the evolution, scope, and potential of biogas technology.
- Depicts popular biogas plant models.
- Provides useful information on carbon credit and highlights the environmental implications of the biomethanation process.
- Presents a knowledge base to biologists, academicians, farmers, and agricultural scientists, who will gain in terms of understanding the basic concepts and applications of the biomethanation technology.
- Provides information on installing biogas plants for meeting energy and manure demands.

Table of 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.

2011 • 9788179934043 • 218 pages • Hardback • 160 × 240 mm • ₹350.00



Looking Back to Change Track

A TERI Publication

In 1997, when India celebrated 50 years of its Independence, TERI's study Growth with Resource Enhancement of Environment and Nature (GREEN) India 2047 assessed whether the country was moving on an environmentally sustainable path. The sequel to the study, Directions Innovations and Strategies for Harnessing Action (DISHA) for sustainable development, released in 2001, projected environmental and resource implications for the country by 2047 under two scenarios—continuing in a business-as-usual mode and adopting a more sustainable development trajectory.

The present study picks up the thread from 1997, examining environmental trends in the last decade, isolating underlying priority issues, and identifying strategies that are needed to prevent or ameliorate environmental damage. The mandate of the present study, thus, is to go beyond reporting the state of India's environment. Through an evaluation of the major factors that are responsible for the present state and the characteristics of resulting impacts, the study provides an agenda for action.

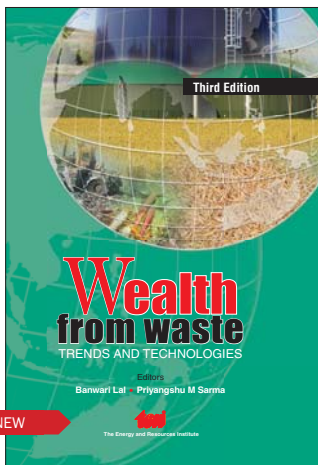
Key features

• India-specific data on various facets of the environment • Overview of the state of the India's environment • Recommendations for managing India's environment in a sustainable way • Contribution of various states and cities towards sustainable development • Study supported by self-explanatory tables and figures • Acronyms and abbreviations explained • Chapters written in reader-friendly and lucid language.

Table of contents

• Environment, development, and quality of life • Environmental governance in India: a critique • Water resources: efficiency and equitable access • Forest resources: degradation, livelihoods, and climate change • Biological diversity: conservation and benefit-sharing • Land resources: food and livelihood security • Outdoor and indoor air pollution • Municipal solid waste • Moving ahead: key messages from the study

2010 • 9788179932841 • 250 pages • Hardback • 265 × 210 mm • ₹850.00



Wealth from Waste

Trends and technologies (Third Edition)

Editors: Banwari Lal and Priyangshu M Sarma

This edition of *Wealth from Waste* takes a close look at the different avenues that consider waste a resource for recycling rather than contemplating its disposal. The book provides insights into the possible technological innovations that can be adopted, along with the current trends and opportunities available worldwide for converting waste into value-added resources. This edition will serve as an important reference for a wide range of stakeholders—from policy-makers to environmentalists, development practitioners, academicians, waste management experts, researchers, and corporate decision-makers.

Key features

- Various options to manage waste have been discussed
- Economic viability of managing waste has been emphasized
- Value-added products desired from waste have been introduced
- The book not only promotes the concept and technologies but also highlights the business potential.

Table of 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
- Coal-bed methane
- Bioreactors for waste water 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

2011 • 9788179934241 • 476 pages • Hardback • 160 × 240 mm • ₹750.00



Know all about Reduce Reuse Recycle

Author: Yoofisaca Syngkon Nongpluh and Guy C Noronha

Do you know what to do with those empty tin cans? How should you responsibly dispose of plastic? What should you do with old medicines? How should you reduce, reuse, recycle all the mess around you? This book contains everything you ought to know about Reduce, Reuse, Recycle and guides you towards a greener lifestyle. Not only does it provide you with essential knowledge on the concept of recycling for a greener tomorrow, it also gives practical recycling advice.

Key features

- Never-seen-before tips on reducing, reusing, and recycling waste.
- Illustrated and visually appealing.
- Complete with data and diagrams.
- Written in a simple and lucid style to appeal to the general reader.

Table of 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

2012 • 9788179933916 • 160 pages (approx.) • Paperback • 152 × 229 mm • Price: TBA



OCEANS

The new frontier

Editors: Pierre Jacquet and Rajendra K Pachauri, and Laurence Tubiana

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 the mainland and oceans.

As humanity's footprint extends, oceans are seeing intense conflicts between actors and issues. The book questions the ability of global governance to regulate access to resources and services provided by the oceans so as to protect the ocean ecosystems. The chapters show how the global governance system has not been adequately responsive while in many cases local initiatives have contributed the solutions. Special sites, like sea-ports, can provide levers for action.

Key features

• Papers by leading international experts and scholars • New perspectives from across the planet • Multiple maps, charts, timelines and thematic focus essays • A wealth of ideas for specialists and non-specialists alike (policy-makers, administrators, concerned citizens, development professionals, entrepreneurs, journalists, students, and others)

Table of 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
And much more...

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



Towards Agricultural Change?

The new frontier

Editors: Pierre Jacquet and Rajendra K Pachauri, and Laurence Tubiana

A Planet for Life 2012 focuses on agriculture and its relation to development, food and the environment. At the end of the 2000s, a consensus has emerged and 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. But what exactly does this consensus cover?

While the idea of investing in agriculture is gaining ground and although several countries or regions appear to be offering opportunities for investment in agricultural land, debates are going on as to which agricultural models to choose and how agricultural policies should be implemented.

A Planet for Life called on many highly specialized authors from different countries and perspectives, and invites the reader to discover the sector in all its complexity, upstream and downstream of agricultural production.

At the crossroads of the challenges posed by development, food security and the environment, the transformation of the agricultural sector is at the heart of the global stakes of sustainable development.

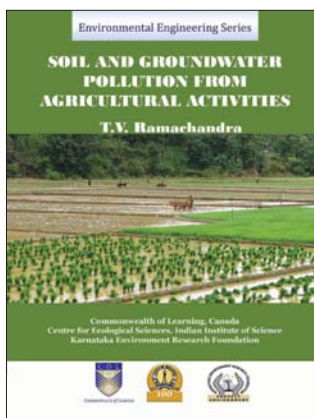
Table of Contents

• 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 • The agri-food industry at the heart of the global food system • Instability in agricultural prices: a comfortable truth • Sustainable voluntary standards: towards privatized regulation in the food and farm sector? • Latin America and the Caribbean: rebuilding agricultural policies • Food security as a global public good

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

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Soil and Groundwater Pollution from Agricultural Activities

Author: 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.

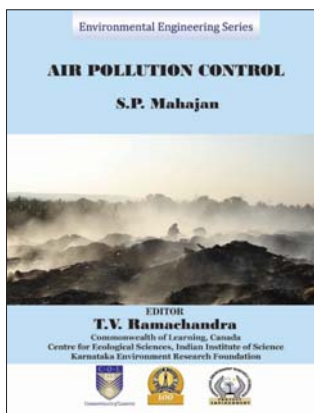
Key features

- Comprehensive coverage of the syllabus
- Content presented in a structured manner for better comprehension and retention
- Learning activities included in all chapters with answers at the end to aid in revision
- Simple and lucid language
- Self-explanatory diagrams and figures

Table of 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 2011 • 9788179931851 • 372 pages • Hardback • 185 × 240 mm • ₹525.00



Air Pollution Control

Author: S P Mahajan

The air we breathe is being polluted by activities, such as burning coal, oil, and other fossil fuels; and manufacture 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 and our environment. The book on air pollution deals with the various sources of air pollution and the associated environmental and health impacts. It also discusses the appropriate measures to control/prevent the same.

Key features

- Overview of state-of-the-art technologies for controlling air pollution
- Chapters supported by various tables, figures, and solved examples for easy comprehension
- Revision questions with solutions
- Simple and lucid language for easy comprehension

Table of 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 2011 • 9788179931868 • 200 pages • Hardback • 185 × 240 mm • ₹350.00



Arsenic Removal from Contaminated Groundwater

Authors: Sirshendu De and Abhijit Maiti

Contamination of groundwater with arsenic is being considered a pervasive and critical issue in recent years. Large areas in India, Bangladesh, South East Asia, and other parts of the world are suffering from this problem. *Arsenic Removal from Contaminated Groundwater* presents a comprehensive discussion on various important issues, including state-of-the-art arsenic removal technologies, preparation and performance analysis of laterite, and scale-up issues and design of a household filter. It also expounds the potentiality of raw laterite and treated laterite as low-cost arsenic adsorbents. The efficiency of adsorbent capacity is evaluated using real arsenic contaminated groundwater collected from an affected area in West Bengal, India. The topic is an emerging area and most of the work presented has the potential of field application.

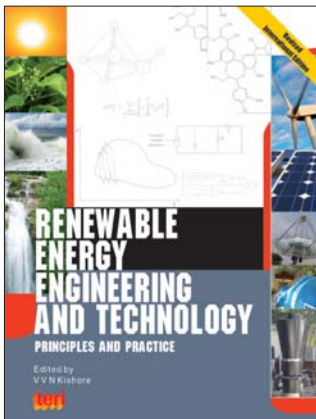
Key features

- Detailed description of hydrogeochemistry of arsenic-contaminated groundwater
- Coverage of technologies of arsenic removal from contaminated groundwater using laterite-based adsorption technique
- Significant insight on scale-up and design aspects of household and community filtration systems
- Unique focus on the preparation and performance of raw laterite and treated laterite for arsenic removal

Table of contents

• Arsenic in groundwater and its health effects • Hydrogeochemistry of arsenic-contaminated water • Arsenic removal processes and advantages of the adsorption process • Application of raw laterite as an arsenic adsorbent • Application of acid-treated laterite as an arsenic adsorbent • Application of acid–base treated laterite as an arsenic adsorbent

2012 • 9788179933831 • 300 pages • Hardback • 160 × 240 mm • ₹995.00



Renewable Energy Engineering and Technology

Principles and practice (revised international edition)

Editor: V V N Kishore

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 the various technologies. The authors are experienced practitioners, and thus recognize the cross-cutting importance of system sizing and integration. Lucid diagrams, photographs, tables, and equations make this publication an invaluable reference tool, and thus an essential read for students and professionals.

Key features

- The book is an exhaustive compilation of renewable energy technology • The chapters have been written by experts from various fields
- Photographs and graphs are presented with each chapter • State-of-the-art technologies are explained simply and in a lucid manner • The book will be an interesting read for a lay person interested in knowing about the recent advances in renewable energy

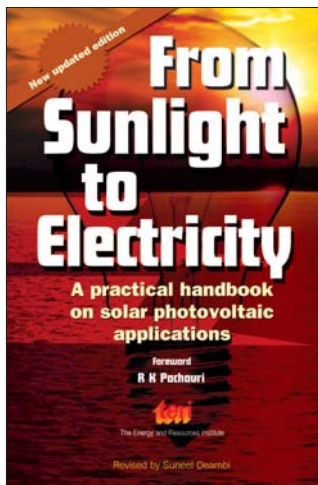
Table of contents

• 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

2010 • 9788179932216 • 914 pages • Hardback • 185 × 240 mm • ₹2250.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



From Sunlight to Electricity

A practical handbook on solar photovoltaic applications (Second Edition)

Author: Suneel Deambi

From Sunlight to Electricity: a practical handbook on solar photovoltaic applications is a compilation of information that gives the readers an overall understanding of the PV (photovoltaic) sector in India, designs and applications of specific devices and related benefits, finance, and policies. The document also discusses the PV 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. The readers will find it useful in assessing the potential of such systems and in identifying appropriate agencies for financing such systems.

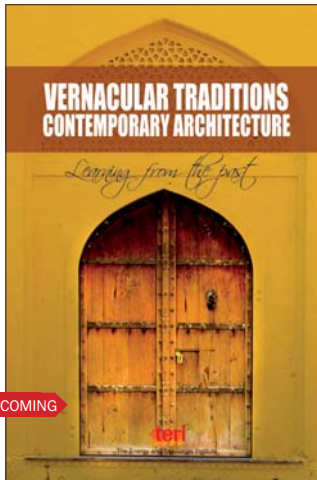
Key features

- Completely revised and updated
- Provides an overall understanding of the PV sector India, designs and applications of specific devices, related benefits, finance, policies, and programmes
- Provides comprehensive on manufacturers, agencies, organizations, as well as useful links
- Written in simple, easy-to-understand language
- Technical information accompanied by illustrations and diagrams

Table of contents

- Introduction
- Components of PV systems
- Applications of PV systems
- Designing PV systems
- Costing of PV systems
- Maintenance of PV systems
- Overview of solar PV programme in India
- Overview of solar PV programme worldwide
- Glossary
- List of PV manufacturers
- List of PV programme implementation agencies (National)
- List of PV programme implementation agencies (International)
- List of important web sites on renewable energy (PV specifically)

Reprint 2012 • 9788179931561 • 132 pages • Paperback • 140 × 215 mm • ₹200.00



Vernacular Traditions: Contemporary Architecture

Author: Aishwarya Tipnis

Architectural history of India speaks volumes about how buildings throughout India were constructed by traditional methods. From village temples to family houses, from store houses to big mansions, houses were created according to prevalent ancient traditions and even religious practices at times, with locally available material. The houses built used to be in sync with the local climate and socio-economic conditions. However, in contemporary times, we seem to have forgotten to create buildings that reflect the socio-economic and climate conditions of that place. This book brings out the importance of vernacular architecture in India and how they can be used to build more sustainable and green towns and cities. The book aims to inform us of the merits of our traditional architectural wisdom.

The book should also be an inspiration for architects to create more sympathetic and distinctive architecture. It would be modern architecture; but one which reflects the spirit, climate, and resources of a place.

Key features

- Guide to a sustainable future with the help of the vernacular
- Includes actual case studies
- Illustrated articles

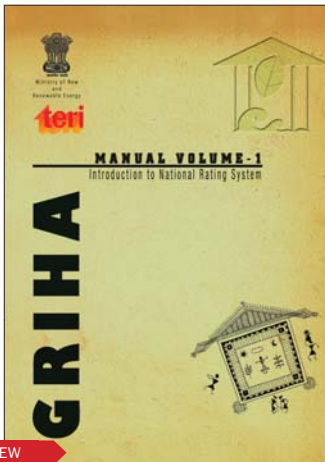
Table of contents

- Understanding “sustainable built environment”
- Understanding green spaces
- Vernacular architecture: our cultural heritage
- Traditional architecture is sustainable architecture
- Learning from the past: vernacular traditions in contemporary architecture
- Essays by practicing architects: Revathi and Vasanth Kamath, Anupama Kundoo, Laurie Baker Institute, Stephane Paumier, Chitra Vishwanath, Vinod Gupta and many others
- How can we make our houses sustainable...dos and don'ts.

2012 • 250 pages (approx.) • Paperback • 160 × 240 mm • Price: TBA

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teri.in>



GRIHA Manuals

5 volume set

A TERI Publication

GRIHA, the national, building rating system of India, is an evaluation tool for measuring and rating a building's environmental performance. This set of 5 GRIHA manuals have been developed as a guide for building professionals (architects, services engineers, landscape designers, project managers, contractors, etc.) who are involved in the design and construction of green buildings, to provide them a comprehensive understanding of the GRIHA rating system. The information provided in these manuals will serve as a complete guide for individuals who are interested in knowing about this rating system, its underlying criteria, rating process, strategies that should be adopted for complying with all the criteria, and the documentation preparation and evaluation procedure.

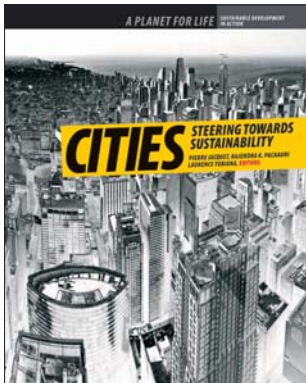
Key features

- First complete guide to the GRIHA rating system
- Comprehensive manual on criteria, rating process, and strategies
- Graphical representation of documentation preparation and evaluation procedure

Table of contents

- Volume 1** Introduction to national rating system (130 pages)
Volume 2 Technical manual for trainers on sustainable site planning, health and well-being during construction (144 pages)
Volume 3 Technical manual for trainers on building and system design optimization, renewable energy application (132 pages)
Volume 4 Technical manual for trainers on water and waste management, sustainable building materials, health and well-being of building occupants, building operation and maintenance (170 pages)
Volume 5 Technical manual for evaluators: a guide for assessing GRIHA documentation (142 pages)

Reprint 2012 • 9788179934067 • Paperback (in slip box) • 216 × 280 mm • ₹2700.00



Cities

Steering towards sustainability

Editors: Pierre Jacquet, Rajendra K Pachauri, and Laurence Tubiana

The twenty-first century is already an urban one. Cities are pivotal to sustainability concerns—globalization, climate change, food security, environmental protection, and innovation. Today's urban actors, both citizens and their leaders, have a major responsibility as trustees of the future: their present actions will influence the shape and structure of cities, so that the generation to come may live healthy and contented lives. This volume takes the reader straight to the heart of how cities work, and identifies contemporary trends, mechanisms, and tools that can influence current strategies and choices.

Key features

- Papers by leading international experts and scholars
- New perspectives from 80 cities across five continents
- Multiple maps, charts, timelines and thematic focus essays
- A wealth of ideas for specialists and non-specialists alike (policy makers, administrators, concerned citizens, development professionals, entrepreneurs, journalists, students and others)

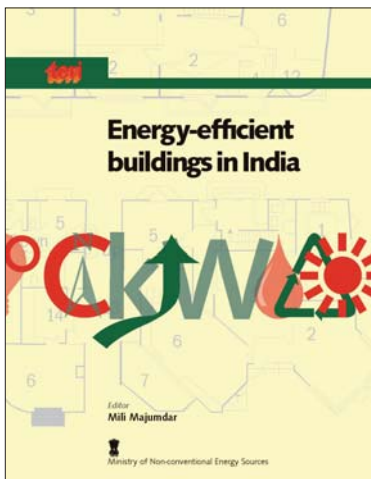
Table of contents

- Sustainable Development in 2009: a global perspective • Cities: steering towards sustainability • Globalization: an urban opportunity? • "World Class" Cities: hubs of globalization and high finance • Sao Paulo: is fragmentation ineluctable? • India: when urban lifestyle determines the climate • Rethinking the city: combining its form and flows • Africa: improve both environmental and human health • The city returns to its hinterlands for natural resources • Access to water and access to the city • Africa: where and how to house urban citizens • Insecurity and segregation: rejecting an urbanism of fear • Inventing sustainable financing for cities • Bridging the ecologies of cities and of nature • When emerging cities set standards • City networks: expressing their needs, building expertise • **Focus** on urban world, urban challenges, global players, local stakes, and countering the risks

2010 • 9788179931318 • 280 pages • Paperback • 190 × 230 mm • ₹595.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teri.in>



Energy-efficient Buildings in India

Editor: Mili Majumdar

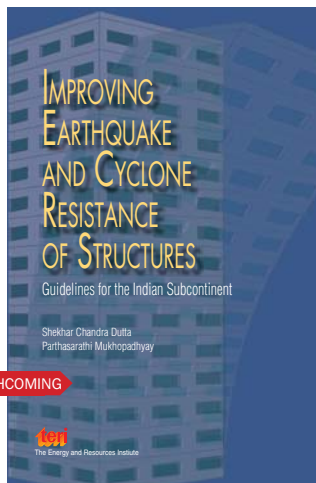
Accelerated urbanization imposes immense pressure on the dwindling energy sources and fragile ecosystems. Yet, the resource crunch confronting energy supplies can be alleviated if we design and develop future buildings by incorporating sound concepts of energy efficiency and sustainability.

Covering 41 projects from India's various climatic zones, this book provides thorough insights into the context, techniques, and benefits of energy-efficient buildings. The projects highlight design responses to varied climatic conditions, appropriate materials and construction methods, implementation of energy-efficient systems, and effective utilization of renewable energy to reduce the pressure on grid power.

Table of 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

2002 • 9788185419824 • 280 pages • Paperback • 210 × 297 mm • ₹860.00



Improving Earthquake and Cyclone Resistance of Structures

Guidelines for the Indian Subcontinent

Authors: Shekhar 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. The book introduces these guidelines in such a manner that all aspects can be properly understood, related, and implemented by practising engineers and architects. This book will help develop awareness and sensitize technical manpower for combating the threats posed by natural disasters like earthquakes and cyclones.

Key features

- Extensive description of guidelines for the types of building structures that are earthquake and cyclone resistant
- Brief overview on the behavioural response of buildings to earthquakes and windstorms from physical standpoints
- Special highlight on the important provisions of the Indian seismic and wind codes with minimum mathematical details
- Awareness of development of adequately conscious and sensitized technical manpower for combating the threats posed by natural disasters like earthquakes and cyclones

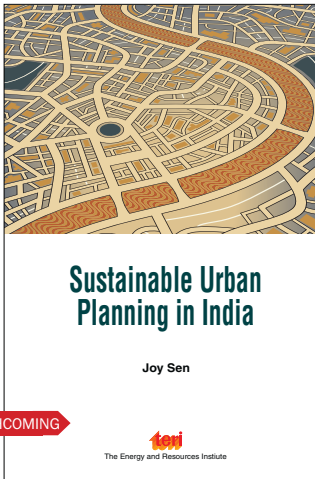
Table of contents

- Introduction
- Occurrence of earthquake: a geological perspective
- Performance of a building during earthquake: the philosophy and general guidelines
- Lessons learnt from case studies of typical moderate earthquakes in Indian subcontinent
- Guidelines for brick masonry buildings
- Guidelines for ductile detailing of reinforced concrete buildings subjected to seismic forces
- Guidelines for elevated tanks and dams: two lifeline structures
- Quantification of seismic design forces
- Chapter 9 Occurrence of tropical cyclones: the North Indian Ocean
- Performance of buildings during cyclones: the philosophy
- Lessons learnt from performance of Sidr-affected non-engineered buildings at the Ganga delta
- Cyclone-resistant buildings: general guidelines
- Rapid visual screening: a vulnerability assessment methodology
- Retrofitting buildings: a damage control measure

2012 • 9788179933022 • 400 pages • Hardback • 160 × 240 mm • ₹995.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Sustainable Urban Planning in India

Author: Joy Sen

Development of an approach for sustainable planning framework in the Indian context is extremely complex due to the diversity in the urban and metropolitan regions of the country. *Sustainable Urban Planning in India* attempts to clarify the planning process and set a broad framework of urban planning in the country. The book focuses on the planning reality of fundamental dimensions of sustainability and explains a working framework of the dynamics of sustainable planning in India. It expands on each of the dimensions, explaining their divergent parameters and their indispensable roles in such a framework.

Key features

- Assessment of framework of sustainable planning in India
- Development of integration of concepts and applications of livability and affordability
- Comprehensive comparison of inequality and sustainability in the Indian context
- Brief overview of the impact of facility design and management on the future of sustainable planning in India

Table of 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

2012 • 9788179933244 • 270 pages • Hardback • 160 × 240 mm • ₹950.00



Sustainable Building

Design Manual (Volume 1 & 2)

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, policy-makers, engineers, and students.

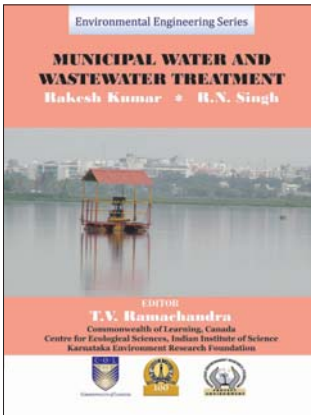
Table of contents

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 bylaws 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

2004 • Volume 1: 9788179930526 • 160 pages • Paperback • 210 × 295 mm • ₹501.00
 2004 • Volume 2: 9788179930533 • 314 pages • Paperback • 210 × 295 mm • ₹501.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Municipal Water and Wastewater Treatment

Authors: Rakesh Kumar and R N Singh

Municipal Water and Wastewater Treatment 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 waste water treatment plants. Theory and conceptual designs of systems for treating municipal waste water and drinking water are discussed. The basic principles of common treatment processes are also discussed.

Key features

- Engineering aspects of municipal water and waste water treatment are explained in a simple and lucid manner.
- For easy comprehension, the techniques are pictorially represented.
- The data is represented in the form of self-explanatory tables.
- Solved examples are given in each chapter.
- Revision questions along with solutions are presented at the end of each chapter.

Table of contents

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

Reprint 2009 • 9788179931882 • 286 pages • Hardback • 185 × 240 mm • ₹425.00



Management of Municipal Solid Waste

Author: T V Ramachandra

Solid material thrown away as unused from various sectors such as agricultural, commercial, domestic, industrial, and institutional constitutes solid wastes. This places an enormous strain on natural resources and seriously undermines efficient and sustainable development. *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.

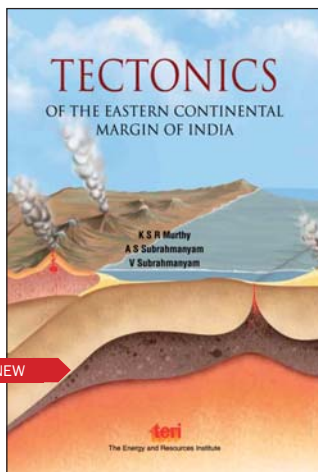
Key features

- Solid wastes classified, functional elements of solid waste generation and its management explained.
- Planning of waste collection, storage, transport, processing and disposal is discussed.
- Waste reduction and waste recycling are dealt with in easy-to-understand manner.
- Discusses composting processes, its environmental effects.
- Management and treatment of hazardous waste are brought out in a lucid manner.
- All topics are presented with tables and diagrams for better understanding.

Table of 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 2011 • 9788179931875 • 340 pages • Hardback • 185 × 240 mm • ₹450.00



NEW

Tectonics of the Eastern Continental Margin of India

Authors: K S R Murthy, A S Subrahmanyam, and V Subrahmanyam

Passive continental margins are formed within a single lithospheric plate in which the continental crust adjoins the oceanic crust. Assessment of the geological potential of these margins requires a comprehensive knowledge on the history of the ocean—from the time of pre-rifting events to the present.

Tectonics of the Eastern Continental Margin of India presents the different aspects of a passive margin such as its evolution, tectonics, and associated hazards, taking the Eastern Continental Margin of India (ECMI) as a case study. It discusses the passive margin and focuses on its origin, morphology, structure, and exploration potential; describes the major structural lineaments delineated from the geophysical data over the ECMI; and attempts to explain the geodynamic evolution of this passive margin. A preliminary estimate on the seismic hazards associated with ECMI is also presented in the book.

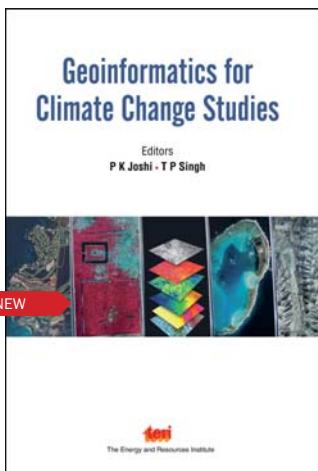
Key features

- Based entirely on data collected over the ECMI
- Comprehensive presentation on the passive margins of India
- Useful for students of geosciences and in the field of marine geophysics in particular
- Will serve as a useful database for exploration agencies in their search for hydrocarbons
- Content accompanied by several tables and figures, which visually elucidates the text

Table of contents

- Introduction
- Evolution of ECMI
- Tectonics of offshore basins
- Hazards associated with the ECMI
- Conclusions

2012 • 9788179934081 • 200 pages • Hardback • 160 × 240 mm • ₹1495.00



NEW

Geoinformatics for Climate Change Studies

Editors: P K Joshi and T P Singh

Climate change is increasingly being considered a critical topic in research and policy-making. Evidence related to climate change deals with spatial and non-spatial data, which can be utilized for policy formulation. Geoinformatics, which includes remote sensing, GIS, GPS, and ICT, provides the most relevant technology to monitor climate change-related variables at different dimensions and scales.

Geoinformatics for Climate Change Studies discusses the art of using this 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.

Key features

- Contains comprehensive information on the latest developments in geoinformatics for climate change studies.
- Chapters range over a wide variety of application areas, including forestry, glaciers, sea level rise, and agriculture.
- Highlights the potential usage of geoinformatics in understanding climatic changes.
- A conceptual guide and ready reference for students, researchers, and teachers working in the field of geoinformatics.

Table of 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
- Assessing land surface temperature over Bangladesh using MODIS satellite images—an indicator of climate change
- High resolution climate change scenarios for Morocco for the 21st century
- GIScience tools for climatic change related natural hazards and modelling, etc...

2011 • 9788179934098 • 490 pages • Hardback • 160 × 240 mm • ₹995.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



HealthGIS: managing health geospatially

Editors: P K Joshi and T P Singh

Human health has always been a priority for our well-being. It is influenced by the location of initiation, spread and services available and more importantly, by facilities that make such services more effective and affordable while optimizing resource use and deliverance. To this, geoinformatics help leveraging limited resources and multiply the positive impact of benefits of individuals, families, and society.

This edited volume includes the art of this technology for investigating, assessing, monitoring, and developing management plans for early warning of emerging diseases from dreaded epidemics. It is a collection of most recent research initiatives, approaches, and innovations using GIS, remote sensing, and GPS around the globe to develop practical applications of public health knowledge to personal health intervention.

Key features

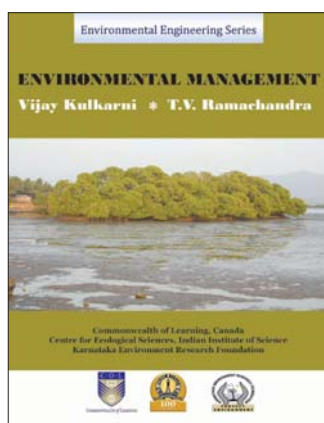
- Comprehensive information on the latest developments in geoinformatics applied to healthcare planning and management.

- Articles ranging over a wide variety of applications including IT and health, viral diseases, GIS database, real-time and early warning systems and advances in environmental monitoring and health surveillance.
- Highlights the potential usage of geoinformatics in healthcare planning and management.
- A compendium for students, researchers, and teachers working in health sector.

Table of contents

- IT and health
- Viral diseases
- Healthcare planning and management
- Emerging diseases
- Health GIS databases
- Advances in environmental monitoring and health
- Realtime and early warning systems

2011 • 9788179933251 • 240 pages • Paperback • 190 × 250 mm • ₹450.00



Environmental Management

Author: Vijay Kulkarni and T V Ramachandra

Environmental management has become one of the most used terms in recent times. But, what exactly does the term mean and entail? Environmental management helps to investigate and manage the environment within the context of human influences, incorporating an examination of economics, culture, political structure, and social equity, as well as natural processes and systems. This book discusses in detail the various issues relating to environmental management, including the fundamentals; the 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.

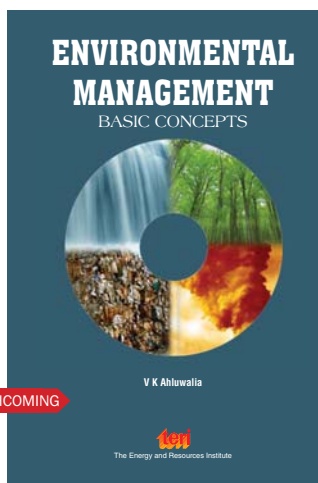
Key features

- Comprehensive coverage of the syllabus
- Content presented in a structured manner for better comprehension and retention
- Learning activities included in all chapters with answers at the end to aid in revision
- Simple and lucid language
- Self-explanatory diagrams and figures

Table of 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 2011 • 9788179931844 • 396 pages • Hardback • 185 × 240 mm • ₹550.00



Environmental Management

Basic Concepts

Author: V K Ahluwalia

Rapid irreversible loss of biodiversity, sudden and unpredictable climate changes, water pollution, ozone layer depletion, and land degradation are a few crucial areas of concern for scientists and environmentalists world over. Prudent use of natural resources and effective management of biodiversity are basic steps towards maintaining our environment.

Environmental Management elucidates the basic concepts of environmental management. It touches upon the components of the environment, types of environment, segments of the environment, and conservation and management of the environment. It also focuses on natural resource management, ecosystems, biodiversity.

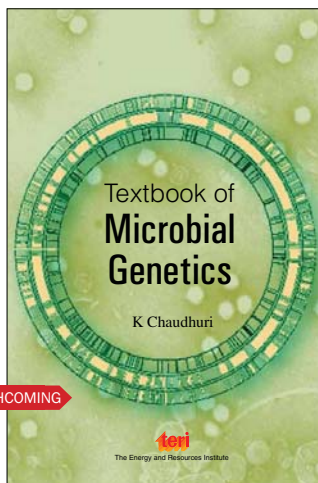
Key features

- Comprehensive explanation of the concept of environment and its critical significance for the survival of mankind
- Overview of the various types of natural resources and their rising depletion
- Detailed analysis of the concepts, structure and function of an ecosystem
- Focus on biodiversity in India, hotspots of biodiversity and threats to biodiversity
- Identification of the causes, effects, and control measures of pollution and management of environment quality

Table of contents

• Introduction • Natural resources • Ecosystems • Biodiversity • Pollution • Social issues and the environment • Human population and environment • Management of environment

2012 • 9788179933213 • 238 pages • Hardback • 185 × 240 mm • ₹495.00



Textbook of Microbial Genetics

Author: K Chaudhuri

Textbook of Microbial Genetics outlines the latest information in microbial genetics in a lucid manner. The genetics of bacteria, bacteriophages, and recombinant DNA technology and its applications are comprehensively discussed in a clear and concise manner. It expounds on specialized aspects of microbial genetics and technologies, techniques for studying bacteriophages, genetic rearrangements and their evolutionary significance, polymerase chain reaction, among other fundamentally significant topics. Few chapters have been dedicated to comprehensive discussions on DNA fingerprinting, random amplification of polymorphic DNA, restriction mapping, and the application of rDNA technology in agriculture, health, medicine and industry.

Key Features

- Comprehensive discussion on the genetics of bacteria, bacteriophages and recombinant DNA technology
- Focus on various areas of microbial genetics
- Analysis of the field of bacterial molecular genetics

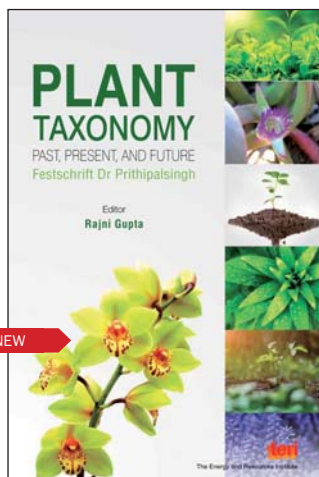
Table of contents

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 • Proteins expression in bacteria • Sequencing of DNA and proteins • Synthesis of oligonucleotides • Site-specific mutagenesis • Protein engineering • Gene isolation and synthesis • Polymerase Chain Reaction (PCR) • DNA Fingerprinting • Random Amplification of Polymorphic DNA • Restriction mapping • Application of rDNA technology in agriculture, health, medicine and industry • Containment – biological and physical

2012 • 9788179933237 • 533 pages • Paperback • 185 × 240 mm • ₹550.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Plant Taxonomy: past, present, and future

Editor: Rajni Gupta

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.

This book is a Festschrift brought out in honour of Dr Prithipalsingh on his 65th birthday for his dedication and devotion to this subject for almost 40 years.

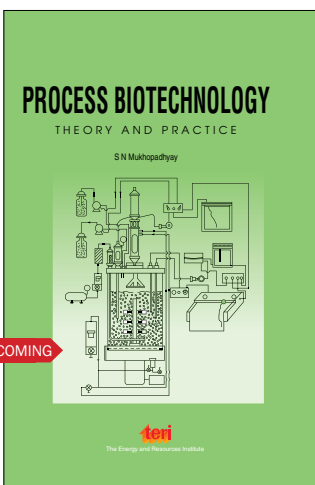
Key Features

- Essays on different aspects of plant taxonomy
- Focus on the meaning of Latin names of plants in simplified terms
- Extensive coverage of folklore taxonomy and its importance for understanding intellectual property
- Comprehensive discussion on molecular taxonomy and barcoding of plants
- Unique coverage on the future of floristic documentation—e-flora

Table of 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 Piracy 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

2012 • 9788179933596 • 376 pages • Hardback • 160 × 240 mm • ₹995.00



Process Biotechnology: theory and practice

Author: S N Mukhopadhyay

Rapid progress has been made in the discipline of biochemical engineering and biotechnology for bioprocess development during the last 50 years. *Process Biotechnology: theory and practice* has been written with the consideration that theory-based tutorial practice is as important as understanding the subject theoretically. The book is an introductory tutorial book involving multidisciplinary principles. Principal innovations that have been made in biosystem related developments have been emphasized through tutorials in this book. The first few chapters cover theoretical aspects of biochemical and chemical engineering concerns in biotechnological advances in a concise manner. The rest have been dedicated to the tutorial aspects of this multidisciplinary subject.

This book is intended for advanced 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 is useful for students in chemistry, biochemistry, and chemical, biochemical, and pharmaceutical engineering courses, especially those who would like to further their careers as biotechnologists. It

can be used as a self-study text for practicing biochemical and chemical engineers, biotechnologists, applied and industrial microbiologists, cell biologists, and scientists involved in bioprocessing research other related fields.

Key Features

- Provides NADE/RADE theory of evolution of life-forms for the first time
- Covers theoretical aspects of biological, ecological, biochemical, and chemical engineering systems in process biotechnology in a concise manner
- Includes research generated data based on several theory-based solved numericals
- Provides experimental data-based formulated numericals for tutorial practice

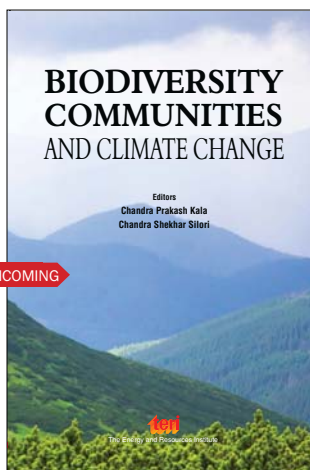
Table of contents

- Prebiotic science of chemicals for life
- A brief review of biotic chemistry
- Cell biology and microbiology
- Chemical and biochemical engineering principles
- Upstream process biotechnology: numericals with solutions
- Enzyme engineering and technology: numericals with solutions
- Process biotechnology product recovery and purification: numericals with solutions
- Unsolved numericals for practice

2012 • 9788179933077 • 800 pages • Hardback • 185 × 240 mm • ₹1195.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Biodiversity, Communities and Climate Change

Editors: Chandra Prakash Kala and Chandra Shekhar Silori

Biodiversity conservation and sustainable use of natural resources has remained one of the key challenges for development agencies and concerned stakeholders for decades together. The huge threat of climate change has only added to this complexity. Though numbers of studies exist on the biodiversity and its conservation, the challenge remains on striking a balance between conservation, livelihood security, and countering the potential impacts of climate change. In this context, *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 topical 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.

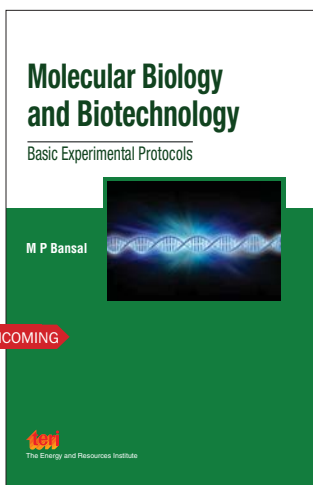
Key features

- Description of biodiversity conservation with focus on the status of biodiversity from lower to higher flora and fauna
- Assessment of evaluation of impacts of allelopathic compounds on growth of native plant species
- Significant emphasis on the usefulness of geospatial techniques for monitoring urban ecosystem and biodiversity
- Specific focus on community, livelihood, and management of biodiversity
- Analysis of participatory conservation and forest management case studies to further strengthen conservation approaches
- Vital importance of community forestry, agriculture sector and biodiversity conservation in addressing climate change threats

Table of contents

A. Assessment of Biodiversity • Fungal biodiversity in forests: current knowledge and future challenges • Spider Family (Araneae) in the Bhyundar Valley of Nanda Devi Biosphere Reserve, Indian Himalaya • Status of forest and wildlife in the Binsar Wildlife Sanctuary, Uttarakhand • Population status and management of medicinal plants in deciduous forests of Chhattisgarh • Application of remote sensing and GIS in mapping of plant resources of Odisha • Chemical relationship of *Parthenium hysterophorus* Linn. on germination and seedling growth of some economically important vegetables • Genetic factors contributing to plant vulnerability • Usefulness of geospatial techniques for monitoring biodiversity and sustainable management of urban ecosystems **B. Community, Livelihood and Management of Biodiversity** • From cabbage to conservation • Increasing livelihood security through Kuth cultivation in upper catchments of Tons Watershed, Garhwal Himalaya • Traditional agroecosystems in Central Himalaya • Analysis of conservation and livelihoods links of joint management in protected areas • Sustainable utilization and management of Timur (*Zanthoxylum armatum* DC.) by high altitude communities in Uttarakhand Himalaya • Ethno-taxonomical studies of the medicinal plants of Nanda Devi Biosphere Reserve, Uttarakhand • Indigenous knowledge, use of NTFPs, and biodiversity conservation in Uttarakhand **C. Climate Change and Biodiversity Conservation** • Climate change and challenges of biodiversity conservation • Role of forests and associated traditional knowledge of local communities and indigenous people in climate change adaptation, etc...

2012 • ISBN: TBA • 358 pages • Hardback • 160 × 240 mm • ₹895.00



Molecular Biology and Biotechnology

Basic Experimental Protocols

Author: M P Bansal

Molecular Biology and Biotechnology: basic experimental protocols is a compilation of methods and techniques commonly used 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.

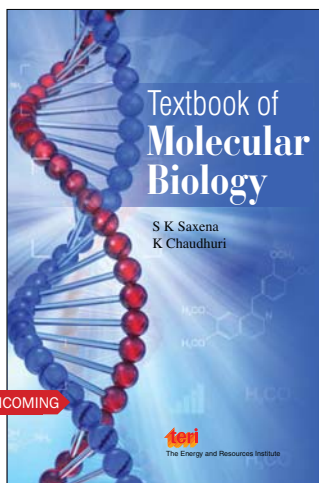
Table of contents

Section 1: Genomics • Initial characterization of DNA • DNA probe preparation, Southern blotting and Hybridization • RFLP and SSCP analysis of DNA • Protein-DNA interaction • Plasmid DNA analysis • Polymerase chain reaction • RNA analysis techniques • Gene or mRNA expression in cells/tissues • Transcription activity in vivo • Apoptosis analysis **Section 2: Proteomics** • Initial preparations for protein analysis • Quantitative determinations of proteins • Protein separation and analysis • Electrophoresis, dot/slot blotting and electroelution of proteins from gels • Polyclonal antibodies production and immuno-analysis • Protein-protein interactions **Section 3: Quantitative Biochemistry** • Analysis of biomolecules • Enzyme kinetics and enzyme activity analysis, etc...

2012 • 9788179933794 • 371 pages • Paperback • 185 × 240 mm • Price: TBA

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Textbook of Molecular Biology

Author: S K Saxena and K Chaudhuri

Textbook of Molecular Biology is an in-depth text reference, covering several topics of this enormous and ever-growing field. Focus has been made on the fundamentals, including DNA structure, DNA replication, superhelicity in DNA, structural features of RNA, and basic features of the genetic code. In vitro transcription and translation systems to screening of DNA molecules, construction of DNA library, site directed mutagenesis, polymerase chain reaction, DNA fingerprinting, RNAi and siRNA technology and molecular biology methods are also explored in detail. Written in clear and lucid manner and accompanied by numerous self-explanatory illustrations, this book provides a clear sense of molecular biology.

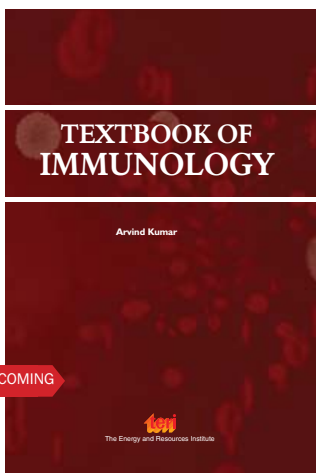
Key Features

- Comprehensive analysis of the DNA structure and the process of DNA replication
- Detailed description of superhelicity in DNA, DNA damage and repair pathways
- Coverage of processing of RNA, protein synthesis, recombinant DNA technology
- Extensive focus on restriction fragment length polymorphism, polymerase chain reaction, DNA fingerprinting

Table of contents

• DNA structure • DNA replication • Asymmetric and dimeric nature of DNA polymerase • Superhelicity in DNA • Initiation of replication of single-stranded DNA • Construction of replication fork in test tube • Retroviruses and their unique mode of DNA synthesis • DNA damage and repair pathways • Structural features of RNA • Initiator and elongator class of tRNA • Transcription-general principles and basic apparatus • Polycistronic and monocistronic mRNAs • Control of transcription by interaction between RNA polymerases and promoter regions • Regulation of gene expression • Maturation and processing of RNA • Basic features of the genetic code • Protein synthesis • Synthesis of exported proteins • In vitro transcription and translation systems • 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

2012 • 9788179933206 • 615 pages • Paperback • 185 × 240 mm • Price: TBA



Textbook of Immunology

Author: Arvind Kumar

This textbook provides in-depth and concise coverage of all major topics in the field of immunology in a simple yet lucid manner. The book covers the basic fundamentals of immunology while focusing on recent concepts regarding the immune system, antigenicity, immunogenicity, antigen determinants, regulation of immune responses cytotoxicity, hypersensitivity, autoimmunity, cytokines, and much more. The text is accompanied with simplified well labelled diagrams and pictures to make the subject easily understandable and interesting to read for the students. Extensive cross referencing between chapters is used to reinforce and broaden the understanding of the core concepts of immunology. This book is an ideal source of comprehensive, authoritative, and up-to-date information for students and faculty in the field of immunology.

Key Features

- Clear and logical format with easily accessible information
- Extensive coverage on the composition of the immune system, antigens, and immunogens
- Detailed explanation of antigen and antibody interaction and major histocompatibility complex
- Description of cell-mediated immunity and cytotoxicity

Table of contents

• Basics of immunity • Composition of immune system • Antigenicity and immunogenicity • Antigen determinants • Antigen and antibody interaction • Major histocompatibility complex • Complement system • Regulation of immune responses • Cell-mediated immunity and cytotoxicity • Hypersensitivity • Autoimmunity • Immunity to infection and tumors • Immunology of graft rejection • Cytokines

2012 • ISBN: TBA • 307 pages • Paperback • 185 × 240 mm • Price: TBA

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>

The Splendour of Lodi RoadMy brush with heritage
Ravi Batra**The Splendour of Lodi Road**

My brush with heritage

Author: Ravi Batra

'The Splendour of Lodi Road is a wonderful "must" for Dilliwallahs as well as for the thousands of tourists and other people who visit this city. Ravi Batra has captured the historical essence of the monuments on this road in utterly delightful paintings. There is a gentle transparency, a lyrical fluidity, a dreamlike impression when reality is rendered in watercolours.'

— Malvika Singh

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.

Table of contents

• Introduction • A concise history of Delhi and the northern region Tomars – Chauhans – Khaljis – Tughlaqs – Sayyids – Lodis – Mughals – the British – Independent India • A primer on Architecture • Safdarjung's Tomb: The life of Safdarjung – Gateway – Safdarjung's tomb – What if? • Lodi Garden: Lady Willingdon's love – Heritage walk – Tomb of Muhammad Shah – Bada Gumbad – Mosque – Sheesh Gumbad – Athpula Bridge – 'Mini' Gateway and Mosque • Subz Burj • Sunder Nursery: Mr Lancaster's labour – Sunderwala Burj • The Humayun Tomb Complex: The life of Emperor Humayun – A general knowledge quiz – Arab Sarai – Gateway to Arab Sarai – Afsarwala Tomb and Mosque – West Gate – Humayun's Tomb – Barber's Tomb – Isa Khan's Tomb – Mosque • Nizamuddin Basti: The life of Hazrat Nizamuddin Auliya – History of the Basti – Atgah Khan's tomb – The Baoli – Chausath Khamba – Ghalib's tomb – Jamaat Khana Mosque – Tomb of Muhammad Shah – Tomb of Jahanara Begum – Dargah of Hazrat Nizamuddin Auliya • The 'monumental' artists in India: William Hodges – Thomas and William Daniell – Sita Ram – Mazhar Ali Khan – Edward Lear – Vasily Vereshchagin – Cyrus Jhabvala – David Gentleman • Epilogue • Heritage Walks • Glossary • Bibliography

2012 • 9788179934463 • 100 pages • Hardback • 280 × 210 mm • ₹, -) "\$\$

Community-based Biodiversity Conservation in the Himalayas

Editors

Yogesh Gokhale and Ajeet K Negi

**Community-based Biodiversity Conservation in the Himalayas**

Editors: Yogesh Gokhale and Ajeet Kumar Negi

The Uttarakhand Himalaya is bestowed with rich biodiversity and a cultural heritage catering to the spiritual demands of almost entire South Asia. The local communities are also intimately bonded with the mother nature for the ecosystem services they receive. This sense of dependence on nature is also reflected in the cultural ethos of the local people of Uttarakhand where the ecosystems such as alpine meadows, river and stream beds, forests, groves and large number of species are protected as well as utilized with cultural restrictions, ensuring the sustainability of the natural resources and biodiversity conservation.

The present volume is the compilation of empirical work done in the context of community-based biodiversity conservation in Uttarakhand Himalayas. It provides an excellent overview of variety of community-based institutions present in Uttarakhand along with the understanding of the richness of biodiversity of the region. The book also brings on board policy provisions, such as Biodiversity Heritage Sites of the Biological Diversity Act, 2002 of India. It is an essential read for ecologists, foresters, government officers, students of forestry, and organizations working on natural resource management, along with the local communities of the Himalayan region.

Table of contents

• Conservation and management of bioresources in Uttarakhand, India • Van panchayats: community conserved areas in Uttarakhand • Van panchayats in Uttarakhand: a perspective from practitioners • Biodiversity assessment of community managed institutions (Van panchayats) through participatory approach in Lamgara area, Almora, Uttarakhand • Sacred groves: a traditional way of conserving biodiversity in Garhwal Himalaya, Uttarakhand • Medicinal plants of Nanda Devi Biosphere Reserve: traditional heritage for livelihood and health security of ethnic communities • Participation of community in conserving biodiversity and managing natural resources: a case study of Kedarnath WLS, etc...

Reprint 2012 • 9788179934036 • 180 pages • Hardback • 160 × 240 mm • ₹350.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Environment Chronicles

The best of **TerraGreen**

A TERI Publication

This unique collection of stories from across India, South Asia, and the world brings to you personal accounts of struggle, survival, trust, and hope for a better tomorrow. From the pollution-choked rivers in our cities, contamination in our food, to the carbon footprint of the US elections; from the promise of smokeless chulhas to the scenario in which we run out of oil; from the slow death of our historical heritage to the plight of the magnificent big cats, this thorough, complete, and meaningful anthology takes a broad sweep over the past few years to highlight and present the best and the biggest stories on the environment.

Key features

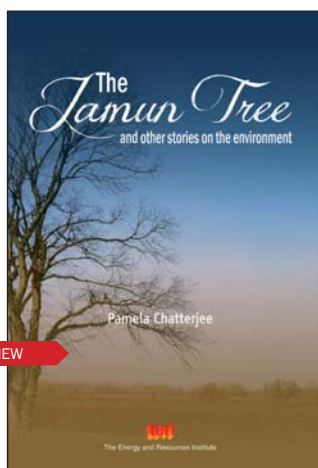
- Unique collection of articles on development and 'underdevelopment' from India and abroad
- Contributions by well known journalists and environmentalists
- Inspirational stories of struggle, survival, and hope
- Immensely readable and informative

Table of contents (selected)

• Is sustainable development an oxymoron? (Dr R K Pachauri) • Is development passé? (Darryl D'Monte) • Mahatma and the environment (John S Moolakkattu) • The Ganga's last stretch (Julian Crandall Hollick) • If oil runs out... (Bhaskar Hazarika) • Can global poverty be eradicated? (Leena Srivastava) • Fear comes full circle in Kashmir (Faisal Yaseen) • For whom the bells toll (Anuradha Dutt) • Tainted tales (Ramesh Menon)

And much more...

2011 • 9788179933589 • 264 pages • Paperback • 150 × 230 mm • ₹295.00



The Jamun Tree and other stories on the environment

Author: Pamela Chatterjee

The Jamun Tree and other stories on the environment provides an insider's view—from the villages, of work related to natural resource management. It describes the process by which farmers were motivated to regard the work to be done as their own. It is a narration of the personal experience of people in those village areas where the author worked.

Starting the endeavour with just 95 farmers on a mere 18 hectares of land, the programme has benefitted over 10,000 farmers by reclaiming over 4,600 hectares in just two years. Till date, with the intervention of the World Bank, a total of 6.25 lakh hectares has been reclaimed and the good work continues. The action taken found an echo with local people as it addressed the need of the hour, right there in the field, with innovative techniques and new ideas.

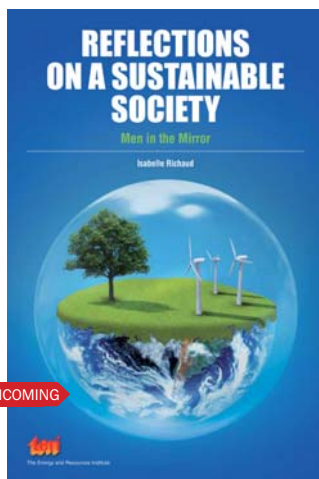
Key features

- An insider's view of work related to natural resource management and community development
- Establishes one of the most important tenets of development studies: involvement of people in the decision-making process is the key to any development initiative
- Reinforces the importance of a bottom-up approach of development initiatives
- Emphasizes the significance of adequate capacity-building of people
- The data accounted for is original and the experiences in most cases, are the author's own
- The narrative is in a story-telling pattern, though most of the incidents and people are from real life

2012 • 9788179934401 • 204 pages • Paperback • 140 × 215 mm • ₹295.00

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Website: <http://bookstore.teri.in.org>



Reflections on a Sustainable Society

Men in the mirror

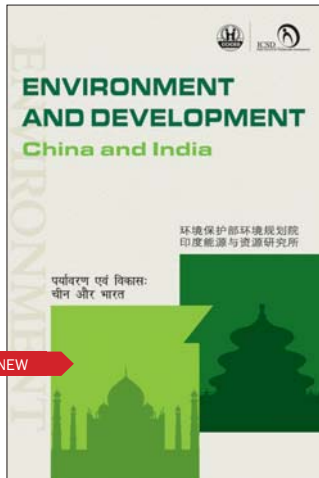
Author: Isabelle Richaud

The book provides a comprehensive overview of current environmental challenges. It emphasizes on the human implications of the environmental crisis. The book not only mentions everyday actions to reduce one's ecological footprint, but, most importantly, it explains the reasons why changes in lifestyles are essential in paving the way to sustainable development. And along with a forward-looking, holistic vision of the deepest and most structural changes needed in the economy, the book highlights the social and the spiritual spheres.

Key features

- Takes the debate on sustainable development to a higher stage
- Puts forth unconventional ideas that are starting to gain attention
- Details and promotes sustainable ways of living

2012 • 250 pages (approx.) • Paperback • 160 × 240 mm • Price: TBA



Environment and Development: China and India

Authors: Chinese Academy of Environmental Planning (CAEP) and
The Energy and Resources Institute (TERI)

Following a trajectory of high growth, China and India face a common challenge of achieving an environmentally benign pattern of development owing to growing global issues like climate change, land degradation, and biodiversity loss. In wake of the above, the China Council for International Cooperation on Environment and Development (CCICED) and the India Council for Sustainable Development (ICSD) commissioned a joint-study, to be conducted by Chinese Academy of Environmental Planning (CAEP) and The Energy and Resources Institute (TERI). This book is the outcome of the study and understands the environment and development paradigms for both India and China, identifies key issues, and draws commonalities, differences, and lessons that can be learnt.

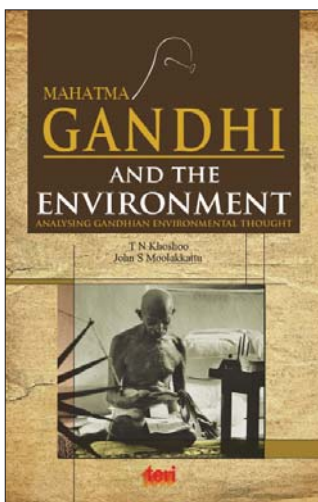
Key features

- The first comprehensive study of ecological trends in China and India
- Authoritative and up-to-date environment and energy related data from China and India
- Scientific facts and figures graphically represented
- Offers a synthesized perspective on sustainable development in both the countries

Table of contents

• Part I: Synthesis – what is common, what is different? • Part II: Environment and development – China • Part III: Environment and development – India

2011 • 9788179933947 • 512 pages • Paperback • 152 × 230 mm • ₹995.00



Mahatma Gandhi and the Environment

Analysing Gandhian environmental thought

Authors: 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. The book has a detailed foreword by Dr R K Pachauri, Director-General, TERI, and Chairman, Intergovernmental Panel on Climate Change.

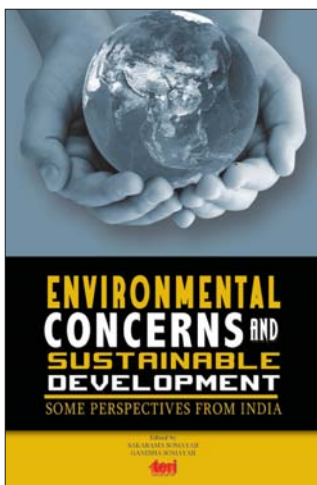
Key features

- Brings out little known thoughts and beliefs of Mahatma Gandhi on environmental protection and ecological balance
- Contents structured under different themes for better understanding
- Contains a large number of quotations by Mahatma Gandhi
- Insightful, absorbing, and full of valuable knowledge
- Equally useful for scholars and general readers

Table of 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 2011 • 9788179932230 • 164 pages • Hardback • 140 × 215 mm • ₹250.00



Environmental Concerns and Sustainable Development

Some perspectives from India

Editors: Sakarama Somayaji and Ganesha Somayaji

Industrialization and development have brought about a radical shift in production and consumption patterns all over the world, including India. However, the impact of these trends on the earth's climate and various natural resources has been quite serious. There is a need to bring about a major transition, whereby this generation, and more importantly, generations yet to come do not suffer from the ill effects of today's development, which is clearly not sustainable. The human race has to bring about a rapid transition to a pattern of growth and development that is genuinely sustainable.

Table of contents

SECTION I: Development and displacement in tribal areas: Sustainable development and liberalization environmental challenges

• Environmental challenges and human security in the Himalayas • Environmental rehabilitation and livelihood impact: some emerging trends and concerns from Tigray (Ethiopia) and Gujarat (India) • **And many more...**

SECTION II : Sustainable development practices: Organic produce supply chains for sustainable agri-food systems and livelihoods: case studies of organic basmati rice in India • How genuine is people's participation in sustainable forest development? a case of community forest management in Andhra Pradesh • The law on sustainable development in India: a review of judicial and legislative initiatives • **And many more...**

Reprint 2011 • 9788179932247 • 354 pages • Hardback • 140 × 215 mm • ₹450.00

Note: Price and publication date are subject to change without prior notice

Website: <http://bookstore.teriin.org>



Nature in Poetry

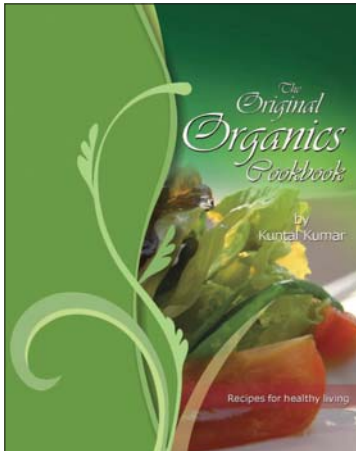
Author: GJV Prasad

In this thought-provoking book, the author explores the rich legacy of nature poetry and its unique capacity to draw our attention to the environmental predicaments. *Nature in Poetry* aims to cover a wide range of poets, from Keats and Wordsworth to Li Bai and Tagore.

Key features

- A rich collection of through-provoking poems on nature/environment
- Covers poets from across the world
- A field guide to nature poetry

2012 • 250 pages (approx.) • Paperback • 152 × 229 mm • Price: TBA



The Original Organics Cookbook

Recipes for healthy living

Author: Kuntal Kumar

The book offers a selection of international recipes, vegetarian and non-vegetarian, using organic products so that you can enjoy the best gourmet food that is also best for your health. Baby spinach salad with grilled onions and tomato vinaigrette, or a fragrant tomato-coriander broth, butter chicken, prawn malai curry, curry with potatoes and garden peas (aloo matar), aubergine in Sesame-Peanut Sauce (Baghare Baigan), hot lemon grass and ginger soufflé, or saffron poached pears with berry sauce are some of the recipes presented in the book. If a chilled dessert is your ultimate desire, then look out for holy basil and yogurt cake with red currant compote or a mango and stevia parfait.

Key features

- The book is written by famous Chef Kuntal Kumar working at Hilton Shillim, situated near Mumbai.
- The book is a compilation of healthy and interesting recipes.
- Ingredients are simple and easily available.
- The book is visually very appealing as it is supported with various photographs.

Table of contents

• The organic tryst • A memoir • Juices • Sauces • Spreads and pickles • Appetizers • Soups • Main course dishes • Desserts • Glossary of cooking terms, ingredients and equipment • Glossary of organic herbs

2008 • 9788179931554 • 128 pages • Hardback • 215 × 255 mm • ₹595.00

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