

CATALOGUE 2015

Books, Journals, Periodicals and Audio-visuals on

**Climate, Energy, Environmental Engineering, Civil Engineering,
Architecture, Environmental Science and Life Sciences**



The Energy and Resources Institute

ENERGY

TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2014/15

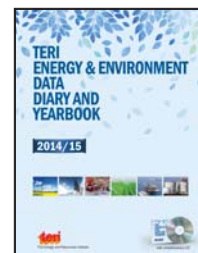
(with complimentary CD)

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.

2015 • 410 pages • Hardback • 220mm × 280mm • 9788179935743 • ₹1995.00

New

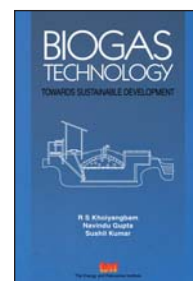


Biogas Technology: towards sustainable development

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.

Reprint 2015 • 218 pages • Hardback • 160mm × 240mm • 9788179934043 • ₹350.00

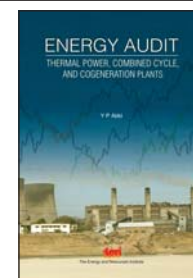


Energy Audit: thermal power, combined cycle, and cogeneration plants

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.

2012 • 288 pages • Hardback • 160mm × 240mm • 9788179933114 • ₹1500.00



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.

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



BESTSELLER

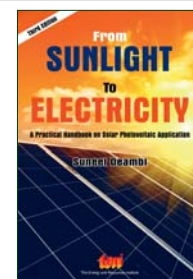
From Sunlight to Electricity: a practical handbook on solar photovoltaic applications Third Edition

Suneel Deambi

The third edition of *From Sunlight to Electricity: a practical handbook on solar photovoltaic application* brings in the latest information about photovoltaic sector in India, designs and applications of specific devices and related benefits, finance, and policies. This edition of the 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 "applications of PV systems for other households".

2015 • 150 pages • Paperback • 140mm × 215mm • 9788179935736 • ₹250.00

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.

Reprint 2015 • 302 pages • Hardback • 180mm × 240mm • 9788179930922 • ₹1500.00



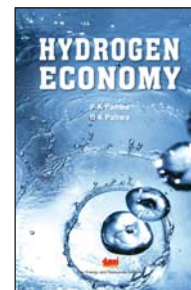
Hydrogen Economy

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.

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

New



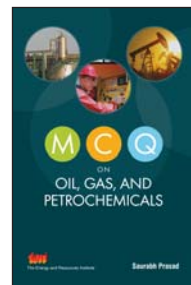
MCQ on Oil, Gas, and Petrochemicals

Saurabh Prasad

Multiple Choice Questions on Oil, Gas, and Petrochemicals includes over 1500 questions covering the exploration of oil and gas, refining of oil, natural gas, and petrochemical sectors. The book is useful for students pursuing their Sectors or Master's Degree in petroleum exploration and for the professionals working in upstream, midstream and downstream sector of oil and gas. The book would also be used by various academic institutions and libraries.

2015 • 300 pages • Paperback • 160mm × 240mm • 9788179935422 • ₹350.00

Forthcoming

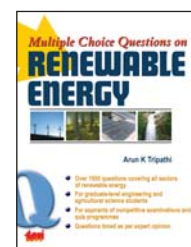


Multiple Choice Questions on Renewable Energy

Arun K Tripathi

Multiple Choice Questions on Renewable Energy contains over 1500 multiple choice questions covering various sectors of renewable energy, including solar, wind, biomass, biogas, biofuels, hydro, energy from wastes, hydrogen, geothermal, ocean, tidal, and waves. The book has three levels of questions, ranging from school to graduate level. A comprehensive overview of renewable energy development in India has also been presented.

Reprint 2013 • 196 pages • Paperback • 180mm × 240mm • 9788179931288 • ₹395.00



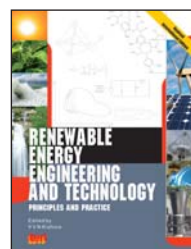
Renewable Energy Engineering and Technology: principles and practice

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.

Reprint 2014 • 914 pages • Hardback • 185mm × 240mm • 9788179932216 • ₹2250.00



ENERGY

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 like 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. This book provides an insight into the basic understanding of PV grid power plants from various end-use considerations.

Reprint 2012 • 288 pages • Hardback • 160mm × 240mm • 9788179933893 • ₹395.00



Other Books on Energy

Regulation in Practice: impact of tariff orders on the Indian electricity sector by Anjali Garg (ISBN: 9788179931271) Price: ₹400

Towards Cleaner Technologies: a process story on biomass gasifiers for heat applications in small and micro enterprises by V V N Kishore (ISBN: 9788179931073) Price: ₹300

Rural Energy Matters: the Dhanawas experience by TERI (ISBN: 9788185419688) Price: ₹275

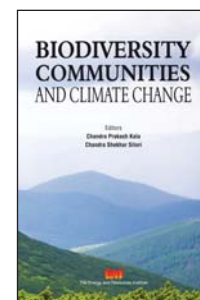
CLIMATE

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.

2013 • 358 pages • Hardback • 160mm × 240mm • 9788179934425 • ₹895.00



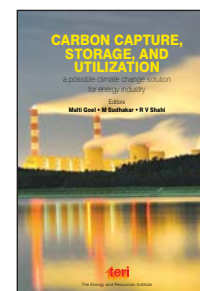
Carbon Capture, Storage and Utilization: a possible climate change solution for energy industry

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* 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. It discusses potential of carbon capture, storage, and utilization as an innovative energy technology towards a sustainable energy future. Various techniques of carbon dioxide recovery from power plants by physical, chemical, and biological means, as well as challenges and prospects in biomimetic carbon sequestration are described. Carbon fixation potential in coal mines and in saline aquifers is also discussed.

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

New



Carbon sequestration by Coastal Floral Community

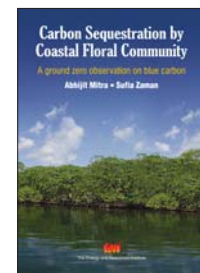
A ground zero observation on blue carbon

Abhijit Mitra and Sufia Zaman

The book focuses on some of the important issue 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.

2014 • 428 pages • Hardback • 160mm × 240mm • 9788179935514 • ₹995.00

New



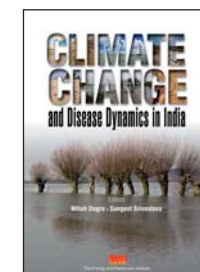
Climate Change and Disease Dynamics in India

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>

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



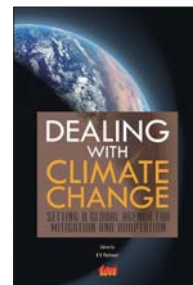
CLIMATE

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.

Reprint 2015 • 256 pages • Hardback • 150mm × 230mm • 9788179932773 • ₹695.00



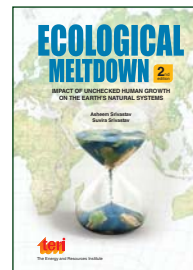
Ecological Meltdown: impact of unchecked human growth on the earth's natural systems

Second Edition

Asheem Kumar Srivastav and Suvira Srivastav

In the 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. The book is an invaluable resource for policymakers and institutions in the forestry, wildlife, energy, rural development, and environment sectors. It will also prove beneficial for conservationists, scientists, researchers, and students of environmental science. A new chapter on "Time for energy transition" has been added in this edition.

2015 • 300 pages • Hardback • 150mm × 230mm • 9788179935729 • ₹550.00



Other Book on Climate

Simplifying Climate Change by Tayal Shresth (ISBN: 9788179932360) Price: ₹295

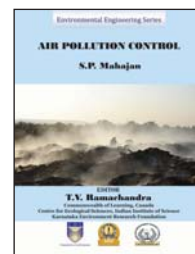
ENVIRONMENTAL ENGINEERING

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 and our environment. The book on air pollution deals with the various sources of air pollution and the associated environmental and health impacts.

Reprint 2015 • 196 pages • Hardback • 180mm × 240mm • 9788179931868 • ₹350.00

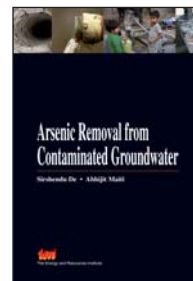


Arsenic Removal from Contaminated Groundwater

Sirshendu De and Abhijit Maiti

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.

2012 • 304 pages • Hardback • 160mm × 240mm • 9788179933831 • ₹995.00

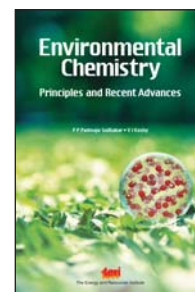


Environmental Chemistry: principles and recent advances

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.

2015 • 250 pages • Hardback • 160mm × 240mm • 9788179935224 • ₹495.00

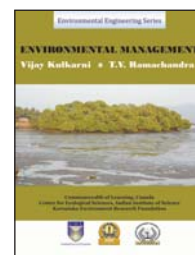


Environmental Management

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.

Reprint 2014 • 394 pages • Hardback • 180mm × 240mm • 9788179931844 • ₹550.00



Environmental Pollution and Health

V K Ahluwalia

Pollution as we know is an undesirable change in the physical, chemical, and biological characteristics of the environment. *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. Finally, the author has dealt with various types of wastes generated in different establishments and how they should be managed.

2015 • 130 pages • Paperback • 160mm × 240mm • 9788179934616 • ₹225.00

New



Environmental Studies

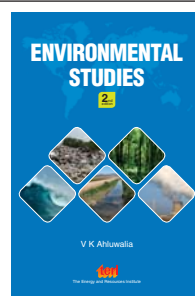
Second Edition

V K Ahluwalia

Based on the latest UGC syllabus, the second edition of *Environmental Studies* has been thoroughly revised and updated. It discusses in nine chapters the various types of natural resources and the problems faced in conserving them and the effective management of resources for sustainable lifestyles. It 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. In this edition, the topics such as “value of biodiversity”, “consumerism and waste products”, “enforcement of environmental legislation”, “human rights”, and “value education” have been included.

2015 • 260 pages • Paperback • 180mm × 240mm • 9788179935712 • ₹325.00

New



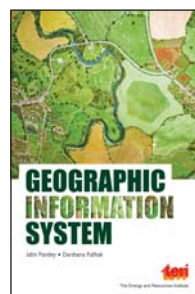
Geographic Information System

Jatin Pandey and Darshana Pathak

Geographic Information System (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.

2014 • 200 pages • Paperback • 160mm × 240mm • 9788179935378 • ₹200.00

New

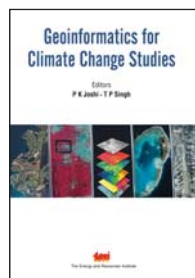


Geoinformatics for Climate Change Studies

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.

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

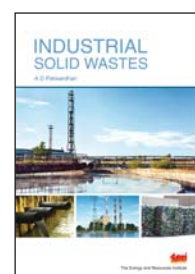


Industrial Solid Wastes

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.

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



ENVIRONMENTAL ENGINEERING

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.

Reprint 2014 • 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.

Reprint 2014 • 284 pages • Hardback • 180mm × 240mm • 9788179931882 • ₹425.00

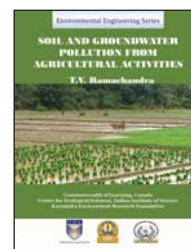


Soil and Groundwater Pollution from Agricultural Activities

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.

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

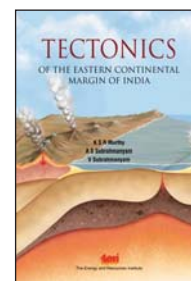


Tectonics of the Eastern Continental Margin of India

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

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.

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



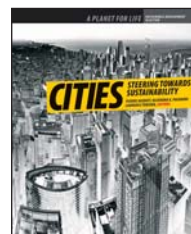
SUSTAINABLE ARCHITECTURE

Cities: steering towards sustainability

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

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, mechanism, and tools that can influence current strategies and choices.

2010 • 272 pages • Paperback • 180mm × 220mm • 9788179931318 • ₹595.00



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. 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.

Reprint 2015 • 278 pages • Paperback • 210mm × 280mm • 9788185419824 • ₹860.00



GRIHA Manuals (Five 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 five GRIHA manuals has been developed as a guide for building professionals (architects, services engineers, landscape designers, project managers, contractors) 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.

Reprint 2013 • 722 pages • Paperback • 210mm × 280mm • 9788179934067 • ₹2700.00

Updates are available at <http://bookstore.teri.res.in>

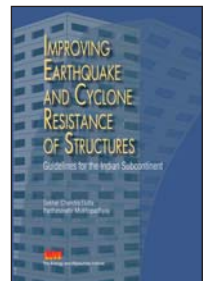


Improving Earthquake and Cyclone Resistance of Structures Guidelines for the Indian subcontinent

Sekhar 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 such as earthquakes and cyclones.

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



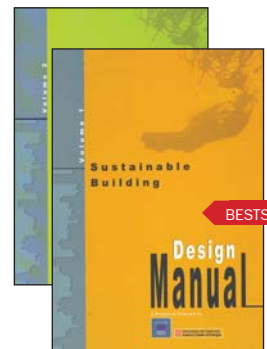
Sustainable Building: design manual (Volume One and Two)

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.

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

Vol. 2: Reprint 2014 • 314 pages • Paperback • 210mm × 300mm • 9788179930533 • ₹501.00

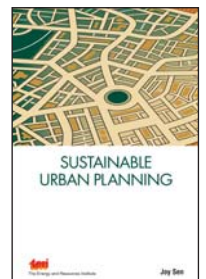


Sustainable Urban Planning

Joy Sen

The present book clarifies the planning process to students who are trying to work in the Indian context. 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.

2013 • 344 pages • Hardback • 160mm × 240mm • 9788179933244 • ₹950.00

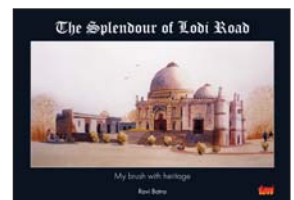


The Splendour of Lodi Road: my brush with heritage

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.'

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



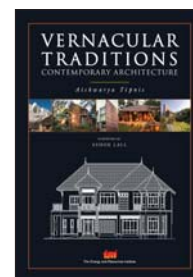
SUSTAINABLE ARCHITECTURE

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.

2012 • 250 pages • Paperback • 160mm × 240mm • 9788179934579 • ₹995.00



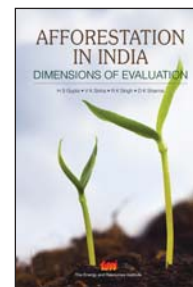
ENVIRONMENTAL SCIENCE

Afforestation in India: dimensions of evaluation

H S Gupta, V K Sinha, R K Singh, and D K Sharma

With growing ecological, biological, and environmental imbalances, due importance and attention should be given to various forest resources and their management. *Afforestation in India: dimensions of evaluation* examines the monitoring and evaluation aspects of an afforestation project that incorporates various dimensions and approaches. This book is a useful guide to those interested in the monitoring and evaluation of afforestation projects.

2013 • 164 pages • Hardback • 160mm × 240mm • 9788179934630 • ₹445.00

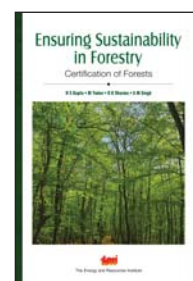


Ensuring Sustainability in Forestry: certification of forests

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.

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



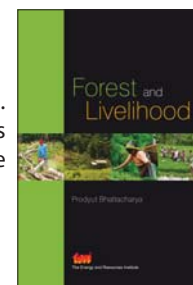
Forest and Livelihood

Prodyut Bhattacharya

Forest and Livelihood brings out key issues relevant to forest and livelihood, with a special focus on non-timber forest produce. It also focuses on emerging research issues arising out of various policies and their impact on the forest-dependent poor. This comprehensive volume is a useful reference for researchers, policy-makers, and development practitioners working in the area of forest and livelihood.

2015 • 250 pages • Hardback • 160mm × 240mm • 9788179935316 • ₹795.00

Forthcoming



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. While some chapters focus on the causes of environmental problems, others discuss methods and ways of mitigating these causes.

2015 • 400 pages • Hardback • 160mm × 240mm • 9788179934555 • ₹595.00

New



Innovation for Sustainable Development

Jean-Yves Grosclaude, Rajendra K Pachauri, and Laurence Tubiana (eds)

The objective of this book is to analyse experiences from across the world and the role of innovation in a variety of areas of development, such as urbanization, agriculture and food, the mobility of people and freight, education and the provision of water and energy to all.

2014 • 304 pages • Paperback • 190mm × 230mm • 9788179935569 • ₹655.00

New



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.

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. The book 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.

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

New



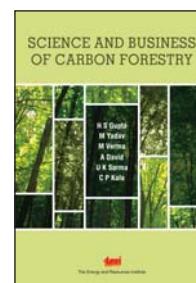
Science and Business of Carbon Forestry

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.

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

New



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. But what exactly does this consensus cover?

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

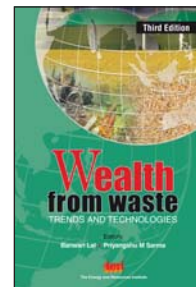


Wealth from Waste: trends and technologies (Third Edition)

Banwari Lal and Priyangshu M Sarma (eds)

This edition of *Wealth from Waste: trends and technologies* 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 policymakers to environmentalists, development practitioners, academicians, waste management experts, researchers, and corporate decision-makers.

Reprint 2013 • 472 pages • Hardback • 160mm × 240mm • 9788179934241 • ₹750.00



Other Books on Environmental Science

Biopesticides for Sustainable Agriculture: prospects and constraints by Nutan Kaushik (ISBN: 9788179930380) Price: ₹80

Common Property Water Resources: dependence and institutions in India's villages

by Arabinda Mishra (ISBN: 9788179931585) Price: ₹850

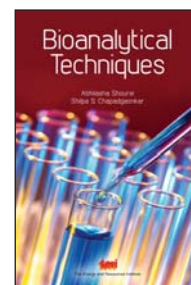
Bioanalytical Techniques

Ahbilasha Shourie and Shilpa S Chapadgaonkar

Bioanalytical Techniques form an integral part of applied biology and biomedical sciences. The various principles of bioanalytical techniques used in biomedical sciences, environmental studies, life sciences, pharmaceutical analysis, molecular biology, and biotechnological research are comprehensively discussed in this book. Analytical instrumentation is also explained in as concise a manner as possible. Microscopy, centrifugation, chromatography, electrophoresis, spectroscopy, and radioisotope and immunodiagnostic techniques are the main topics focussed in this book. Techniques in molecular biology and recombinant DNA technology have also been described in detail.

2015 • Hardback • 160mm × 240mm • 9788179935293 • ₹395.00

New



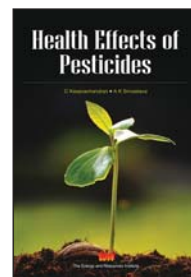
Health Effects of Pesticides

C Kesavachandran and A K Srivastava

Health Effects of Pesticides covers various aspects of the use of pesticides, their behaviour, degradation, and impacts in the agrarian environment. It focuses on pesticide poisoning incidents and farm practices in developing countries. The health impacts of pesticides, including neurological effects, respiratory effects, 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.

2015 • Hardback • 160mm × 240mm • 9788179935439 • ₹395.00

Forthcoming

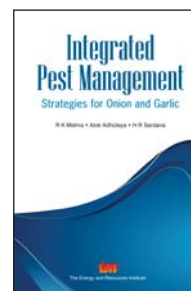


Integrated Pest Management: strategies for onion and garlic

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 reduces 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.

2012 • 70 pages • Hardback • 160mm × 240mm • 9788179934968 • ₹395.00



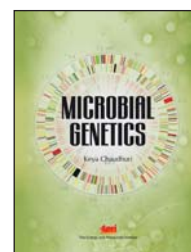
Microbial Genetics

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 post-graduate level. Latest information on microbial genetics has been outlined in the book in a lucid manner.

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

New

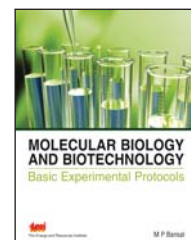


Molecular Biology and Biotechnology: basic experimental protocols

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.

2013 • 392 pages • Paperback • 180mm × 240mm • 9788179933794 • ₹695.00



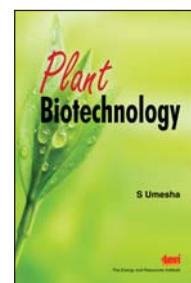
Plant Biotechnology

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, 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.

2015 • 383 pages • Hardback • 160mm × 240mm • 9788179935033 • ₹795.00

Forthcoming

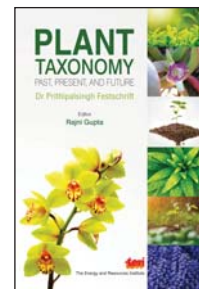


Plant Taxonomy: past, present, and future

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.

Reprint 2014 • 376 pages • Hardback • 160mm × 240mm • 9788179933596 • ₹995.00

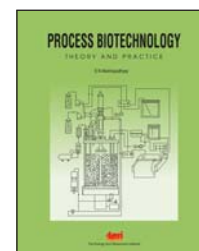


Process Biotechnology: theory and practice

S N Mukhopadhyay

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 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.

2012 • 800 pages • Paperback • 185mm × 240mm • 9788179933077 • ₹495.00

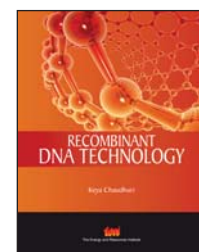


Recombinant DNA Technology

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 post-graduate students and teachers in the areas of molecular biology, biotechnology, genetics, microbiology, life sciences, pharmacy, agriculture, and basic medical sciences.

Reprint 2015 • 298 pages • Paperback • 180mm × 240mm • 9788179933206 • ₹595.00



Textbook of Animal Biotechnology

B Singh and S K Gautam

The book covers various topics, including economically important livestock breeds, paradigm shifts in livestock production, biotechnology in animal nutrition and in livestock-assisted reproduction, and genomics and genetic engineering tools in livestock production and management.

2015 • 620 pages • Hardback • 180mm × 240mm • 9788179933275 • ₹695.00

New



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 for students. 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.

2013 • 314 pages • Paperback • 180mm × 240mm • 9788179933800 • ₹595.00



Building the Future We Want

Rajendra K. Pachauri, Anne Paugam, Teresa Ribera and Laurence Tubiana (eds)

A Planet for Life provides first hand analysis and narrative of ongoing transformation and sustainable development challenges in key countries. It tours five continents to shed light on what countries and regions are actually doing to achieve sustainable development, tackling their own local – and global – problems, and exploring different pathways towards sustainability. It explores implementation issues and financing for development options more specifically, with an overview of key propositions for making sustainable development financing a lever to transform economies and societies.

2015 • 254 pages • Paperback • 190mm x 230mm • 9788179935750 • ₹655.00



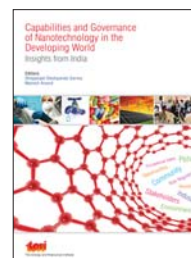
Capabilities and Governance of Nanotechnology in the Developing World

Insights from India

Shilpanjali Deshpande Sarma and Manish Anand (eds)

This book seeks to examine developments, opportunities, concerns and challenges in nanotechnology from a developing country perspective, raising complex questions and issues in the course of the responsible development of nanotechnology. It covers a range of issues such as potential R&D prospects, S&T capacities and innovation systems, issues of environment, health and safety, risk and regulatory preparedness, and prospective socio-economic and ethical repercussions, with a focus on Indian developments.

2013 • 248 pages • Hardback • 230mm x 150mm • 9788179935675 • ₹500.00



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 election; 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.

Reprint 2015 • 264 pages • Paperback • 150mm x 230mm • 9788179933589 • ₹295.00



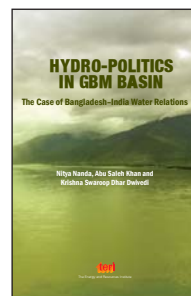
Hydro-politics in GBM Basin: the case of Bangladesh-India water relations

Nitya Nanda, Abu Saleh Khan, and Krishna Dwivedi

New

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.

2015 • 200 pages • Hardback • 180mm x 240mm • 9788179935705 • Price: TBA



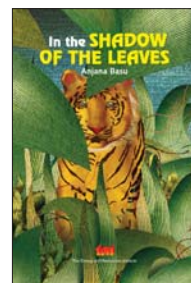
In the Shadow of the Leaves

Anjana Basu

New

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.

2014 • 200 pages • Paperback • 120mm x 180mm • 9788179935385 • ₹250.00



ENVIRONMENTAL STUDIES

Know all about: reduce, reuse, recycle

Yoojisaca 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.

2013 • 150 pages • Paperback • 140mm × 220mm • 9788179933916 • ₹295.00

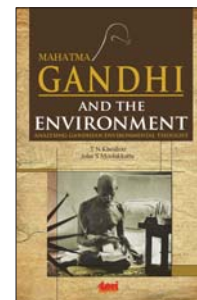


Mahatma Gandhi and the Environment: analysing Gandhian environmental thought

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.

Reprint 2015 • 160 pages • Hardback • 140mm × 215mm • 9788179932230 • ₹250.00

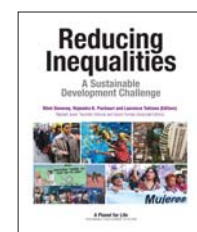


Reducing Inequalities: a sustainable development challenge

Rémi Genevey, Rajendra K Pachauri, and Laurence Tubiana

The 2013 edition of *A Planet for Life* represents a unique international initiative grounded on conceptual and strategic thinking, and most importantly empirical experiments, conducted on five continents and touching on multiple realities. This unprecedented collection of works proposes a solid empirical approach, rather than an ideological one, to inform future debate. The case studies collected in this volume demonstrate the complexity of the new systems required to accommodate each country's specific economic, political, and cultural realities. These systems combine technical, financial, legal, fiscal, and organizational elements with a great deal of applied expertise, and are articulated within a clear, well-understood, growth- and job-generating development strategy.

2013 • 272 pages • Paperback • 190mm × 230mm • 9788179935309 • ₹655.00



The Jamun Tree and other Stories on the Environment

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 and involved 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 4600 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 work is still on. The action taken found an echo with local people as it followed the need of the hour, right there in the field, with innovative techniques and new ideas.

Reprint 2015 • 204 pages • Paperback • 140mm × 215mm • 9788179934401 • ₹295.00



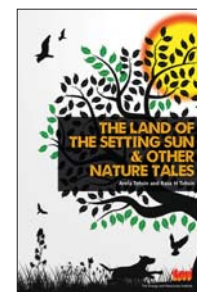
The Land of the Setting Sun & Other Nature Tales

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.

2014 • 145 pages • Paperback • 160mm × 240mm • 9788179935320 • ₹295.00

New



Other Books on Environmental Studies

Environmental Concerns and Sustainable Development: some perspectives from India by S Somayaji (ISBN: 9788179932247) Price: ₹450

Greening the Budget: Case studies from India by TERI (ISBN: 9788179930311) Price: ₹240

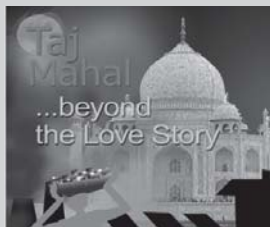
Reducing Rural Poverty in Asia by Nurul Islam (ISBN: 9788179931257) Price: ₹725

TERRAVISION: a series of films on dangers, solutions and hopes

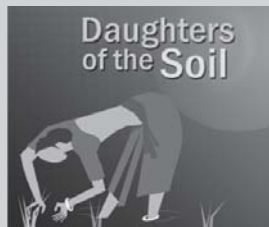
These 22-minute films capture stark images of grim realities in India—how alternative energy can light up rural India sunk in darkness for centuries; how hardworking women farmers remain faceless; how rural folk are rewriting their fate in harvesting water; how indigenous forest people are the key to sustainable forest management; of how climate change is ringing the warning bells at us; of how rural women are empowering themselves with a simple and sustainable concept called micro-finance; and, finally, how millions of poor workers will pay for the upkeep of the Taj Mahal. They also deal with diverse issues like the dismal health status of women in India; the plight of those below the poverty line and their fight with hunger; the flicker of hope in the vast darkness of being oppressed and denied rights; the pathos of the artisans of the dying arts and even the heart-wrenching chronicles of child labour in India. While dealing with such real issues, these documentaries don't intend to paint a grim picture. On the contrary, they are potent and powerful means of creating awareness and evoking action towards the cause they bring to the fore.



An area of darkness



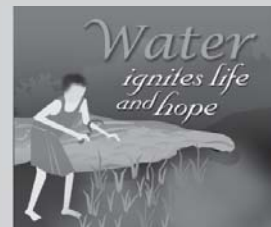
Taj Mahal



Daughters of the soil



Learning to dream again



Water ignites life and hopes



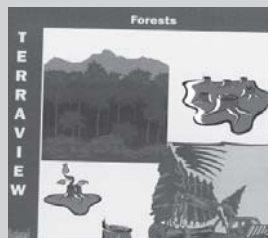
Shifting power



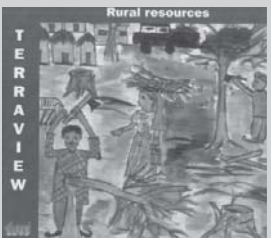
Threads of life



Give us a life, please!



Forests



Rural resources



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To their credit...



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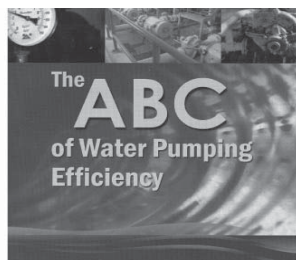
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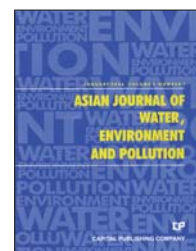
Primarily due to high population density, many regions of the continent face severe problems of water pollution on local as well as regional scale and these have to be tackled with a pan-Asian approach. However, the available literature on the subject is generally based on research done in Europe and 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.

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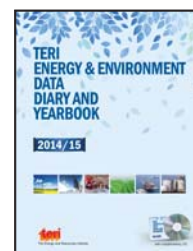
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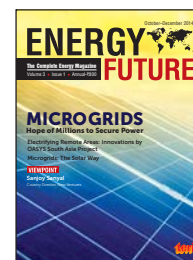
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