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This Book aims at strengthening the scientific basis for sustainable development. Scientists are improving their understanding about Nature. Technologists are harnessing the potential and resources for economic growth. Scientists, through increased research, can provide efficient techniques for supporting the prudent management of the environment. The uses of remote sensing techniques, efficient materials, application of polymer technology, alternative energy forms,

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etc., are other topics of discussions included in the book.

The Prokaryotes is a comprehensive, multi-authored, peer reviewed reference work on Bacteria and Achaea. This fourth edition of The Prokaryotes is organized to cover all taxonomic diversity, using the family level to delineate chapters. Different from other resources, this new Springer product includes not only taxonomy, but also prokaryotic biology and technology of taxa in a broad context. Technological aspects highlight the usefulness of prokaryotes in processes and products, including biocontrol agents and as genetics tools. The content of the expanded fourth edition is divided into two parts: Part 1

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contains review chapters dealing with the most important general concepts in molecular, applied and general prokaryote biology; Part 2 describes the known properties of specific taxonomic groups. Two completely new sections have been added to Part 1: bacterial communities and human bacteriology. The bacterial communities section reflects the growing realization that studies on pure cultures of bacteria have led to an incomplete picture of the microbial world for two fundamental reasons: the vast majority of bacteria in soil, water and associated with biological tissues are currently not culturable, and that an understanding of microbial ecology

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requires knowledge on how different bacterial species interact with each other in their natural environment. The new section on human microbiology deals with bacteria associated with healthy humans and bacterial pathogenesis. Each of the major human diseases caused by bacteria is reviewed, from identifying the pathogens by classical clinical and non-culturing techniques to the biochemical mechanisms of the disease process. The 4th edition of *The Prokaryotes* is the most complete resource on the biology of prokaryotes. The following volumes are published consecutively within the 4th Edition: *Prokaryotic Biology and Symbiotic Associations*, *Prokaryotic Communities and*

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Ecophysiology Prokaryotic
Physiology and Biochemistry
Applied Bacteriology and
Biotechnology Human Microbiology
Actinobacteria Firmicutes
Alphaproteobacteria and
Betaproteobacteria
Gammaproteobacteria
Deltaproteobacteria and
Epsilonproteobacteria Other Major
Lineages of Bacteria and the
Archaea

Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters

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have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers. Traditional plant physiological ecology is organism centered and provides a useful framework for understanding the interactions between plants and their environment and for identifying characteristics likely to result in plant success in a particular habitat.

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This book focuses on extending concepts from plant physiological ecology as a basis for understanding carbon, energy, and biogeochemical cycles at ecosystem, regional, and global levels. This will be a valuable resource for researchers and graduate students in ecology, plant ecophysiology, ecosystem research, biometerology, earth system science, and remote sensing. Key Features *

The integration of metabolic activities across spatial scales, from leaf to ecosystem * Global constraints and regional processes * Functional units in ecological scaling * Models and technologies for scaling
How We'll Live, Love, and Think in the Future

Introduction to Environmental

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Science and Technology

Science, Production and

Applications

Green Building, Materials and Civil

Engineering

The Case for Marriage

A modern introduction to Newtonian dynamics and the basics of special relativity, this book discusses standard topics such as Newton's laws of motion, energy, linear and angular momentum, rigid body dynamics, and oscillations, then goes on to introduce modern topics such as symmetries, phase space, nonlinear dynamics and chaos. The author presents Newton's equation of motion as a differential equation, bringing out key issues such as

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phase space and determinism in mechanical systems and helps introduce modern research topics such as chaos theory in a natural way. He highlights key assumptions of Newtonian mechanics and incorporates numerical solutions of many mechanical systems using MATLAB.

Despite the fact that chemical applications of ultrasound are now widely acknowledged, a detailed presentation of inorganic systems covering nano-particles, catalysis, aqueous chemistry of metallic solutions and their redox characteristics, both from a theoretical and experimental perspective has eluded researchers

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of this field. Theoretical and Experimental Sonochemistry Involving Inorganic Systems fills this gap and presents a concise and thorough review of this fascinating area of Sonochemistry in a single volume.

This book encompasses the most updated and recent account of research and implementation of Microbial Electrochemical Technologies (METs) from pioneers and experienced researchers in the field who have been working on the interface between electrochemistry and microbiology/biotechnology for many years. It provides a holistic view of the METs, detailing the functional mechanisms, operational

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configurations, influencing factors governing the reaction process and integration strategies. The book not only provides historical perspectives of the technology and its evolution over the years but also the most recent examples of up-scaling and near future commercialization, making it a must-read for researchers, students, industry practitioners and science enthusiasts. Key Features:

Introduces novel technologies that can impact the future infrastructure at the water-energy nexus. Outlines methodologies development and application of microbial electrochemical technologies and details out the illustrations of

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microbial and electrochemical concepts. Reviews applications across a wide variety of scales, from power generation in the laboratory to approaches. Discusses techniques such as molecular biology and mathematical modeling; the future development of this promising technology; and the role of the system components for the implementation of bioelectrochemical technologies for practical utility. Explores key challenges for implementing these systems and compares them to similar renewable energy technologies, including their efficiency, scalability, system lifetimes, and reliability.

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This book introduces the 3R concept applied to wastewater treatment and resource recovery under a double perspective. Firstly, it deals with innovative technologies leading to: Reducing energy requirements, space and impacts; Reusing water and sludge of sufficient quality; and Recovering resources such as energy, nutrients, metals and chemicals, including biopolymers. Besides targeting effective C,N&P removal, other issues such as organic micropollutants, gases and odours emissions are considered. Most of the technologies analysed have been tested at pilot- or at full-scale. Tools and methods for their Economic, Environmental, Legal

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and Social impact assessment are described. The 3R concept is also applied to Innovative Processes design, considering different levels of innovation: Retrofitting, where novel units are included in more conventional processes; Re-Thinking, which implies a substantial flowsheet modification; and Re-Imagining, with completely new conceptions. Tools are presented for Modelling, Optimising and Selecting the most suitable plant layout for each particular scenario from a holistic technical, economic and environmental point of view.

*Why Married People are Happier,
Healthier and Better Off Financially
Preventing Mass Death and*

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*Genocide in the Twenty-First
Century*

*Science and Technology for
Sustainable Development*

*Environmental Engineering and
Safety*

*Integrated Pest Management of
Tropical Vegetable Crops*

Demonstrating how a university can, in a very practical and pragmatic way, be re-envisioned through a transdisciplinary informed frame, this book shows how through an open and collegiate spirit of inquiry the most pressing and multifaceted issue of contemporary societal (un)sustainability can be addressed and understood in a way that transcends narrow disciplinary work. It also provides a practical exemplar of

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how far more meaningful deliberation, understandings and options for action in relation to contemporary sustainability-related crises can emerge than could otherwise be achieved. Indeed it helps demonstrate how only through a transdisciplinary ethos and approach can real progress be achieved. The fact that this can be done in parallel to (or perhaps underneath) the day-to-day business of the university serves to highlight how even micro seed initiatives can further the process of breaking down silos and reuniting C.P. Snow's 'two cultures' after some four centuries of the relentless project of modernity. While much has been written and talked about with respect to both sustainability and transdisciplinarity, this book offers a pragmatic example which hopefully will signpost the ways

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others can, will and indeed must follow in our common quest for real progress. Michael Dobkowski and Isidor Walliman have edited a book that, although ominous, is not a fatalistic look at the future. The Coming Age of Scarcity lays out the perils of not recognizing the reality of genocide or of acknowledging the full implications of warfare. Showing how scarcity and surplus populations can lead to disaster, The Coming Age of Scarcity is about evil. It tells of "ethnic cleansing" and excavates the world's expanding killing fields. The writers in this volume are all too aware that the future suggests that present-day population growth, land resources, energy consumption, and per capita consumption cannot be sustained without leading to greater catastrophes. The essays in this

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volume ask: What is the solution in the face of mass death and genocide? As philosopher John K. Roth says in the Foreword, "The essays can sensitize us against despair and indifference because history shows that human-made mass death and genocide are not inevitable, and no events related to them will ever be."

The text covers a broad spectrum between basic and advanced complex variables on the one hand and between theoretical and applied or computational material on the other hand. With careful selection of the emphasis put on the various sections, examples, and exercises, the book can be used in a one- or two-semester course for undergraduate mathematics majors, a one-semester course for engineering or physics majors, or a one-semester course for first-year

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mathematics graduate students. It has been tested in all three settings at the University of Utah. The exposition is clear, concise, and lively. There is a clean and modern approach to Cauchy's theorems and Taylor series expansions, with rigorous proofs but no long and tedious arguments. This is followed by the rich harvest of easy consequences of the existence of power series expansions. Through the central portion of the text, there is a careful and extensive treatment of residue theory and its application to computation of integrals, conformal mapping and its applications to applied problems, analytic continuation, and the proofs of the Picard theorems. Chapter 8 covers material on infinite products and zeroes of entire functions. This leads to the final chapter which is devoted to the

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Riemann zeta function, the Riemann Hypothesis, and a proof of the Prime Number Theorem.

Future scientists, engineers, public health workers face challenges which were predicted, but certainly not expected to emerge this soon and to the magnitude presently occurring.

The problems and projected solutions in this book cover a broad spectrum of issues including industrial and domestic solid wastes, air pollution and associated global warming, noise pollution and safety. Many engineering elements go into developing solutions to these problems including the need for additional detailed mapping and surveying, developing improved waste water treatment, including the development of more eco-friendly process and importance on conservation. Issues such as

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environmental assessments now play a most important role in practically all proposed developments. Old landfills are being mined for fuel, new landfills are designed to prevent waste materials from migrating to groundwater and new approaches to waste incineration focus on energy recovery and conversion of waste materials into usable materials. This text should help engineers and scientists meet the environmental challenges.

COVID-19 in the Global South
Water Resources Engineering
Intro To Env Engg (Sie), 4E
Waste Water Engineering
Innovative Wastewater Treatment &
Resource Recovery Technologies:
Impacts on Energy, Economy and
Environment

A groundbreaking look at marriage,

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one of the most basic and universal of all human institutions, which reveals the emotional, physical, economic, and sexual benefits that marriage brings to individuals and society as a whole. *The Case for Marriage* is a critically important intervention in the national debate about the future of family. Based on the authoritative research of family sociologist Linda J. Waite, journalist Maggie Gallagher, and a number of other scholars, this book's findings dramatically contradict the anti-marriage myths that have become the common sense of most Americans. Today a broad consensus holds that marriage is a bad deal for women, that divorce is better for children when parents are unhappy, and that marriage is essentially a private choice, not a public institution. Waite and Gallagher

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flatly contradict these assumptions, arguing instead that by a broad range of indices, marriage is actually better for you than being single or divorced— physically, materially, and spiritually. They contend that married people live longer, have better health, earn more money, accumulate more wealth, feel more fulfillment in their lives, enjoy more satisfying sexual relationships, and have happier and more successful children than those who remain single, cohabit, or get divorced. *The Case for Marriage* combines clearheaded analysis, penetrating cultural criticism, and practical advice for strengthening the institution of marriage, and provides clear, essential guidelines for reestablishing marriage as the foundation for a healthy and happy society. “ A compelling defense of a

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sacred union. The Case for Marriage is well written and well argued, empirically rigorous and learned, practical and commonsensical. ” --

William J. Bennett, author of The Book of Virtues “ Makes the absolutely critical point that marriage has been misrepresented and misunderstood. ”

-- The Wall Street Journal

www.broadwaybooks.com

During the last two decades, the environmental pollution regulations have undergone a vast change.

Attempts have been made to refine the conventional technologies and to develop new technologies to meet increasingly more stringent environmental quality criteria. The challenge that one faces today is to meet these stringent requirements in an environmentally acceptable and cost effective manner. The present

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book addresses the application of the state-of-the-art technology to the solutions to today ' s problems in industrial effluent pollution control and environmental protection. The highlight of this book is the inclusion of the salient features of process modifications and other important methods and techniques for the minimization of wastes. The chapter on process modification for waste minimization provides new technical features and tools, latest technologies and techniques, and other industrial operations. Besides, the text covers the role of an environmental engineer in the methodology for making pollution control decisions. KEY FEATURES : Includes numerous self-explanatory tabular and diagrammatic representations. Presents pollution problems of few chemical and

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processing industries. Provides case studies on environmental pollution problems and their prevention.

Analyzes thoroughly the planning and strategies of environmental protection. Designed as a textbook for the undergraduate students of civil and chemical engineering, this book will also be useful to the postgraduate students of environmental science and engineering.

This book contains select green building, materials, and civil engineering papers from the 4th International Conference on Green Building, Materials and Civil Engineering (GBMCE), which was held in Hong Kong, August 21-22, 2014. This volume of proceedings aims to provide a platform for researchers, engineers, academics, and industry professionals f

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The third edition of *Psychiatric Care of the Medical Patient* brings a classic reference text into the twenty-first century. It combines critical scholarship with the voice of expert clinicians who work at the interface of psychiatry with medical specialties. It is meant to be read for pleasure as well as consulted as a reference. The editors have worked with the authors to bring a consistent perspective to the book - one that sees the medical psychiatrist as an agent for bringing a more comprehensive perspective to medical care. Even seasoned and knowledgeable practitioners will find much that is new to them in this book. The volume covers topics in depth that other books in the field may not cover at all, such as the use of herbal and nutritional therapies for medical-psychiatric symptoms and syndromes,

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and the choice of questionnaires to supplement history-taking. It looks at old topics in a new way: The chapter on the physical examination applies psychometric considerations to the Babinski sign, describes the method and application of quantitative bedside olfactory testing, and discusses smartphone apps to improve the sensitivity of the examination. *Psychiatric Care of the Medical Patient, 3rd Edition* provides concepts and information to facilitate the dialogue between psychiatrists and general medical specialists - minimizing psychiatric jargon and speaking in the common language of caring and curious physicians.

Microbial Electrochemical
Technologies

New Technologies for Rural
Development Having Potential of

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Commercialisation
Deltaproteobacteria and
Epsilonproteobacteria
Impacts and Responses
The hidden potential

***According to an August 2009
report from***

***PricewaterhouseCoopers, the
United States market for
functional foods in 2007 was
US\$ 27 billion. Forecasts of
growth range from between
8.5% and 20% per year, or
about four times that of the
food industry in general.***

***Global demand by 2013 is
expected to be about \$100
billion. With this demand for
new products comes a demand
for product development and
supporting literature for that
purpose. There is a wealth of***

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research and development in this area and great scope for commercialization, and this book provides a much-needed review of important opportunities for new products, written by authors with in-depth knowledge of as yet unfulfilled health-related needs. This book addresses functional food product development from a number of perspectives: the process itself; health research that may provide opportunities; idea creation; regulation; and processes and ingredients. It also features case studies that illustrate real product development and commercialization histories. Written for food scientists and

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technologists, this book presents practical information for use in functional food product development. It is an essential resource for practitioners in functional food companies and food technology centres and is also of interest to researchers and students of food science. Key features: A comprehensive review of the latest opportunities in this commercially important sector of the food industry Includes chapters highlighting functional food opportunities for specific health issues such as obesity, immunity, brain health, heart disease and the development of children. New technologies

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of relevance to functional foods are also addressed, such as emulsion delivery systems and nanoencapsulation.

Includes chapters on product design and the use of functional ingredients such as antioxidants, probiotics and prebiotics as well as

functional ingredients from plant and dairy sources

Specific examples of taking products to market are provided in the form of case studies e.g. microalgae

functional ingredients Part of the Functional Food Science and Technology book series

(Series Editor: Fereidoon Shahidi)

Designed for a first-course in environmental engineering

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for undergraduate engineering and postgraduate science students, the book deals with environmental pollution and its control methodologies. It explains the basic environmental technology - environmental sanitation, water supply, waste management, air pollution control and other related issues - and presents a logical and systematic treatment of topics. The book, an outgrowth of author's long experience in teaching the postgraduate science and engineering students, is presented in a student-oriented approach. It is interspersed with solved examples and illustrations to

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reinforce many of the concepts discussed and apprise the readers of the current practices in areas of water processing, water distribution, collection and treatment of domestic sewage and industrial waste water, and control of air pollution. It emphasizes fundamental concepts and basic applications of environmental technology for management of environmental problems. Besides students, the book will be useful to the academia of environmental sciences, civil/environmental engineering as well as to environmentalists and administrators working in the field of pollution control.

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This book on Basics of Environmental Science and Engineering will provide complete overview of the status and role of various resources on environment, environmental awareness and protection. The book has simple approach on various factors for undergraduate and post graduate level. This book will be useful for engineering as well as science graduates also. All efforts have been made to cover the present topics on environmental issues with adequate and relevant examples.

This Revised Edition Of The Book On Environmental Pollution Control Engineering Features A Systematic And

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Thorough Treatment Of The Principles Of The Origin Of Air, Water And Land Pollutants, Their Effect On The Environment And The Methods Available To Control Them. The Demographic And Environmental Trends, Energy Consumption Patterns And Their Impact On The Environment Are Clearly Discussed. Application Of The Physical, And Chemical Engineering Concepts To The Design Of Pollution Control Equipment Is Emphasized. Due Importance Is Given To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of Hazardous Wastes Is

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***Added. Information
Pertaining To Indian
Conditions Is Given Wherever
Possible To Help The Reader
Gain An Insight Into India
Sown Pollution Problems.This
Book Is Mainly Intended As A
Textbook For An Integrated
One-Semester Course For
Senior Level Undergraduate
Or First Year Post-Graduate
Engineering Students And
Can Also Serve As A Reference
Book To Practising Engineers
And Decision Makers
Concerned With
Environmental Pollution
Control.
Theoretical and Experimental
Sonochemistry Involving
Inorganic Systems
The Biogas Handbook***

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Energy, Ecology and Environment

A Guide for Surface Flux Measurement and Analysis

The Handbook of Micrometeorology is the most up-to-date reference for micrometeorological issues and methods related to the eddy covariance technique for estimating mass and energy exchange between the terrestrial biosphere and the atmosphere. It provides useful insight for interpreting estimates of mass and energy exchange and understanding the role of the terrestrial biosphere in global environmental change.

Written by experts from London's renowned Royal Free Hospital, Textbook of Plastic and Reconstructive Surgery offers a comprehensive overview of the vast topic of

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reconstructive plastic surgery and its various subspecialties for introductory plastic surgery and surgical science courses. The book comprises five sections covering the fundamental principles of plastic surgery, cancer, burns and trauma, paediatric plastic surgery and aesthetic surgery, and covers the breadth of knowledge that students need to further their career in this exciting field. Additional coverage of areas in which reconstructive surgery techniques are called upon includes abdominal wall reconstruction, ear reconstruction and genital reconstruction. A chapter on aesthetic surgery includes facial aesthetic surgery and blepharoplasty, aesthetic breast surgery, body contouring and the evolution of hair transplantation. The broad scope of this volume and attention to often neglected specialisms

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such as military plastic surgery make this a unique contribution to the field. Heavily illustrated throughout, Textbook of Plastic and Reconstructive Surgery is essential reading for anyone interested in furthering their knowledge of this exciting field. This book was produced as part of JISC's Institution as e-Textbook Publisher project. Find out more at <https://www.jisc.ac.uk/rd/projects/institution-as-e-textbook-publisher>

This book presents a comprehensive text for undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in Environmental Pollution, Environmental Health and Environmental Engineering. It introduces the reader to different areas of ecology, environmental science and

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engineering. Furthermore, the concept of social issues and the environment have also been discussed. It covers a wide range of topics such as energy, global environmental problems, solid waste management, air pollutants and their effects, water pollution and their effects, soil pollution and noise pollution.

2008 Best Reference, Library Journal

"The impact of global warming is rapidly evolving. This valuable resource provides an excellent historical overview and framework of this topic and serves as a general resource for geography, oceanography, biology, climatology, history, and many other subjects. A useful reference for a wide audience of business professionals and government officials as well as for the general public; essential for both academic and public libraries." —Library Journal

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"This is a useful set because of the individual country entries as well as the general-audience language . . ." — Booklist (Starred Review) The Encyclopedia of Global Warming and Climate Change helps readers learn about the astonishingly intricate processes that make ours the only planet known to be habitable. These three volumes include more than 750 articles that explore major topics related to global warming and climate change—ranging geographically from the North Pole to the South Pole, and thematically from social effects to scientific causes. Key Features Contains a 4-color, 16-page insert that is a comprehensive introduction to the complexities of global warming Includes coverage of the science and history of climate change, the polarizing controversies over climate-change

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theories, the role of societies, the industrial and economic factors, and the sociological aspects of climate change Emphasizes the importance of the effects, responsibilities, and ethics of climate change Presents contributions from leading scholars and institutional experts in the geosciences Serves as a general resource for geography, oceanography, biology, climatology, history, and many other subjects The Encyclopedia of Global Warming and Climate Change provides a primarily nonscientific resource to understanding the complexities of climate change for academic and public libraries. READER'S GUIDE Atmospheric Sciences Climate climate and Society Climate Change, Effects Climate Feedbacks Climate Models Countries: Africa Countries: Americas Countries: Asia Countries: Europe

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**Countries: Pacific Glaciology
Government and International Agencies
Institutions Studying Climate Change
Oceanography Paleo-Climates People
Programs And Conventions
Encyclopedia of Global Warming and
Climate Change
Environmental Impact Assessment
Guidelines for [name of Projects]:
Irrigation and drainage projects
Scaling Physiological Processes
The Prokaryotes
Psychiatric Care of the Medical Patient**
Contributed articles; with
reference to India.
Environmental
engineeringTata McGraw-
Hill
EducationEnvironmental
EngineeringMcGraw-Hill
Science, Engineering &

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MathematicsEnvironmental
Engineering and
SafetyScientific
Publishers

From the author of the international bestseller Future Files comes the one book you need to read to prepare for the world of tomorrow. On most measures that matter, we've never had it so good.

Physically, life for humankind has improved immeasurably over the last fifty years. Yet there is a crisis of progress slowly spreading across the world. Perhaps this is due to a failure of

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vision; in the 1960s we dreamed of flying cars and moon hotels; today what we've ended up with are status updates and cat videos. To a large degree, the history of the next fifty years will be about the relationship between people and technologies created by a tiny handful of designers and developers. These inventions will undoubtedly change our lives, but the question is, to what end? What do we want these technologies to achieve on our behalf? What are they capable of,

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and -- as they transform the media, the economy, healthcare, education, work, and the home -- what kind of lives do we want to lead? Richard Watson hereby extends an exuberant invitation for us to think deeply about the world of today and envision what kind of world we wish to create in the future. In a fascinating and accessible way, *Digital vs Human* examines the possible effects of technology on every area of our lives. The publication was launched at the Global

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Symposium on Soil Organic Carbon (GSOC) held at FAO headquarters (Rome, 21-23 March 2017). It provides an overview to decision-makers and practitioners of the main scientific facts and information regarding the current knowledge and knowledge gaps on Soil Organic Carbon. It highlights how better information and good practices may be implemented to support ending hunger, adapting to and mitigating climate change and achieving overall sustainable development.

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The Coming Age of Scarcity
Basics of Environmental
Science and Engineering
Environmental engineering
TEXTBOOK OF ENVIRONMENTAL
ENGINEERING

Introduction to Mechanics

***Available Open Access
under CC-BY-NC-ND
licence. Bringing together
a range of experts across
various sectors, this
important volume
explores some of the key
issues that have arisen in
the Global South with the
COVID-19 pandemic.
Situating the worldwide
health crisis within***

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broader processes of globalisation, the book investigates implications for development and gender, as well as the effects on migration, climate change and economic inequality. Contributors consider how widespread and long-lasting responses to the pandemic should be, while paying particular attention to the accentuated risks faced by vulnerable populations. Providing answers that will be essential to development

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practitioners and policy makers, the book offers vital insights into how the impact of COVID-19 can be mitigated in some of the most challenging socio-economic contexts worldwide.

It is an edited book with chapters written by multi-disciplinary specialists in their specific subject areas. It covers development of IPM components and packaging them for individual vegetable crops specifically targeted to tropical

countries. Scientific background for IPM components or tactics will be included. There will be case studies of IPM packages developed and implemented in different countries. The concept of IPM has been in existence for the past six decades; however, a practical holistic program has not been developed and implemented for vegetable crops, in the developing countries. Currently the IPM adoption rate in the tropics is minimal and

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there is a need for implementation of IPM technologies that are environmentally safe, economical, and socially acceptable. We believe that adoption and implementation of IPM provided in this book will lead to significant reduction in crop losses and mitigate adverse impacts of pesticide use in the tropics. This book is an outcome 20 years of research, development and implementation of the IPM CRSP, a project supported by USAID and

administered by Virginia Tech in several developing countries along the tropical belt in Africa, Asia, Latin America and the Caribbean.

With pressure increasing to utilise wastes and residues effectively and sustainably, the production of biogas represents one of the most important routes towards reaching national and international renewable energy targets. The biogas handbook: Science,

production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology. Following a concise overview of biogas as an energy option, part one explores biomass resources and fundamental science and engineering of biogas production, including feedstock characterisation, storage and pre-treatment, and yield optimisation. Plant

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design, engineering, process optimisation and digestate utilisation are the focus of part two. Topics considered include the engineering and process control of biogas plants, methane emissions in biogas production, and biogas digestate quality, utilisation and land application. Finally, part three discusses international experience and best practice in biogas utilisation. Biogas cleaning and upgrading to biomethane,

biomethane use as transport fuel and the generation of heat and power from biogas for stationery applications are all discussed. The book concludes with a review of market development and biomethane certification schemes. With its distinguished editors and international team of expert contributors, The biogas handbook: Science, production and applications is a practical reference to biogas technology for process

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**engineers,
manufacturers, industrial
chemists and
biochemists, scientists,
researchers and
academics working in this
field. Provides a concise
overview of biogas as an
energy option Explores
biomass resources for
production Examines
plant design and
engineering and process
optimisation
Transdisciplinary
Perspectives on
Transitions to
Sustainability
Minnesota Law Review**

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***Environmental Pollution
Control Engineering
Textbook of Plastic and
Reconstructive Surgery
Concise Environmental
Engineering***