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*Quantile regression is gradually
emerging as a unified statistical*

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methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the

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entire response distribution. This monograph is the first comprehensive treatment of the subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in

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the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

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.

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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

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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 flatly contradict these assumptions, arguing instead that by a broad range of indices, marriage is

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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

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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

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reestablishing marriage as the foundation for a healthy and happy society. "A compelling defense of a 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

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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.

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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

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cost effective manner. The present 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

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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

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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 processing industries. Provides case

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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

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*students of environmental science and
engineering.*

Digital Vs Human

*Textbook of Plastic and Reconstructive
Surgery*

Environmental Engineering and Safety

Ireland's Environment

Concise Environmental Engineering

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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

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*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 how far more*

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*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*

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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

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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

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respect to both sustainability and transdisciplinarity, this book offers a pragmatic example which hopefully will signpost the ways others can, will and indeed must follow in our common quest for real progress.

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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

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a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated

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*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*

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careers.

*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*

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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

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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-

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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

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*particular scenario from a holistic
technical, economic and
environmental point of view.*

Quantile Regression

Environmental Pollution Control

Engineering

Innovative Wastewater Treatment

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*& Resource Recovery
Technologies: Impacts on Energy,
Economy and Environment
Microbial Electrochemical
Technologies
A Millennium Report*

This book presents a

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comprehensive text for undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in Environmental Pollution,

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Environmental Health and Environmental Engineering. It introduces the reader to different areas of ecology, environmental science and engineering. Furthermore, the concept of social issues and

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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

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pollution and their effects, soil pollution and noise pollution.

As the field of environmental management moves into the future, its focus will be on reducing or eliminating waste

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pollution streams. Engineers, technicians, and maintenance personnel must develop proficiency and improved understanding of pollution prevention and waste control to cope with the challenges of

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this important area. Pollution
Prevention

This book encompasses the
most updated and recent
account of research and
implementation of Microbial
Electrochemical Technologies

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(METs) from pioneers and experienced researchers in the field who have been working on the interface between electrochemistry and microbiology/biotechnology

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for many years. It provides a holistic view of the METs, detailing the functional mechanisms, operational configurations, influencing factors governing the reaction process and integration

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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

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commercialization, making it a must-read for researchers, students, industry practitioners and science enthusiasts. Key Features: Introduces novel technologies that can impact the future

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infrastructure at the water-energy nexus. Outlines methodologies development and application of microbial electrochemical technologies and details out the illustrations of microbial and

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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

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mathematical modeling; the future development of this promising technology; and the role of the system components for the implementation of bioelectrochemical

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technologies for practical utility. Explores key challenges for implementing these systems and compares them to similar renewable energy technologies, including their efficiency,

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scalability, system lifetimes,
and reliability.

Ethics, Society, and History
in the Work of Bernard
Lonergan

A Guide for Surface Flux
Measurement and Analysis

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The Coming Age of Scarcity
Process Design Manual for
Nitrogen Control

TEXTBOOK OF
ENVIRONMENTAL
ENGINEERING

Contributed articles; with reference

Page 49/162

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to India.

Engineering and science professionals have studied the management of hazardous and toxic wastes extensively, and it is clear that the principal option of the future will be waste minimization, or pollution prevention. At present,

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however, few practicing professionals have a working understanding of this approach, educators are just starting to teach course material in this field, and students are only beginning to receive the training necessary to implement pollution prevention in

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their future work environment. An applications-oriented workbook of more than 100 exercises, Pollution Prevention: Problems and Solutions covers a variety of topics closely relevant to this field. The workbook is the result of a National Science Foundation College Faculty

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Workshop designed to generate new ideas and innovative educative approaches in the emerging, interdisciplinary field of pollution prevention. Contents include a pollution prevention overview in addition to problems and solutions organized into the categories of basic

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concepts, pollution prevention principles, regulations, source reduction, recycling, treatment, chemical plant/domestic applications, case studies, and ethics. Readership: Academics and students of undergraduate or graduate courses on waste management, as well as

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decision makers and practising professionals in the pollution prevention industry.

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

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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

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MATLAB.

The Case for Marriage

Leaf to Globe

*Psychiatric Care of the Medical
Patient*

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

Waste Water Engineering

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*The Handbook of
Micrometeorology is the
most up-to-date
reference for
micrometeorological
issues and methods
related to the eddy*

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*covariance technique for
estimating mass and
energy exchange between
the terrestrial
biosphere and the
atmosphere. It provides
useful insight for*

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*interpreting estimates
of mass and energy
exchange and
understanding the role
of the terrestrial
biosphere in global
environmental change.*

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*This comprehensive
treatment of
environmental impact
assessment (EIA)
provides an
authoritative
contemporary review of*

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*theory and practice over
the past ten years. EIA
is viewed as both
science and art,
reflecting the concern
both with technical
aspects of appraisal and*

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*the effects of EIA on
the decision-making
process. Adopted in many
countries, with
different degrees of
enthusiasm, since its
inception in the early*

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1970's, EIA is established as a major procedure for assessing the environmental implications of legislation, the implementation of policy

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*and plans and the
initiation of
development projects.
EIA is increasingly an
essential part of
environmental management
Michael Dobkowski and*

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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

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*recognizing the reality
of genocide or of
acknowledging the full
implications of warfare.
Showing how scarcity and
surplus populations can
lead to disaster, The*

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*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*

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*are all too aware that
the future suggests that
present-day population
growth, land resources,
energy consumption, and
per capita consumption
cannot be sustained*

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*without leading to
greater catastrophes.
The essays in this
volume ask: What is the
solution in the face of
mass death and genocide?
As philosopher John K.*

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*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*

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*not inevitable, and no
events related to them
will ever be."*

*Water Resources
Engineering*

*Intro To Env Engg (Sie),
4E*

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*Theory and Practice
Complex Variables
Who Global Report on
Traditional and
Complementary Medicine
2019*

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Page 74/162

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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 broader processes of globalisation, the book

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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

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risks faced by vulnerable populations. Providing answers that will be essential to development 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.

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

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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

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To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of Hazardous Wastes Is Added. Information Pertaining To Indian Conditions Is Given Wherever Possible To Help The Reader Gain An Insight Into India Sown Pollution

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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

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Concerned With Environmental Pollution Control.

Designed for a first-course in environmental engineering for undergraduate engineering and postgraduate science students, the book deals with environmental pollution and its control

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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

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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 reinforce many of the concepts discussed and apprise the readers of the current practices in areas of water

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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

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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.

Environmental Impact Assessment

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Handbook of Micrometeorology
How We'll Live, Love, and Think in the
Future

History, Ethics, and Emergent
Probability

**From the author of the
international bestseller Future**

Page 87/162

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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

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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 vision; in the 1960s we dreamed of flying cars and moon hotels; today what we've

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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

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**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**

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**of, 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**

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**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**

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**effects of technology on every
area of our lives.**

**This book on Basics of
Environmental Science and
Engineering will provide
complete overview of the
status and role of various**

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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

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as well as science graduates also. All efforts have been made to cover the present topics on environmental issues with adequate and relevant examples.

The text covers a broad

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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

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**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**

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majors, or a one-semester course for first-year mathematics graduate students. It has been tested in all three settings at the University of Utah. The exposition is clear, concise,

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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

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**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,**

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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

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functions. This leads to the final chapter which is devoted to the Riemann zeta function, the Riemann Hypothesis, and a proof of the Prime Number Theorem.

New Technologies for Rural

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**Development Having Potential
of Commercialisation
Energy, Ecology and
Environment
Impacts and Responses
Environmental engineering
Pollution Prevention**

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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

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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

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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

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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, and the

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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

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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

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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.

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This report is structured in five parts: national framework for traditional and complementary medicine (T&CM); product regulation; practices and practitioners; the challenges faced by countries; and, finally, the

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country profiles. Apart from the section on practices and practitioners, the report is consistent with the format of the report of the first global survey in order to provide a useful comparison. The section on practices and

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practitioners, which covers providers, education and health insurance, is a new section incorporated to reflect the emerging trends in T&CM and to gather new information regarding these topics at a national level.

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All new information received has been incorporated into individual country profiles and data graphs. The report captures the three phases of progress made by Member States; that is, before and after the first WHO

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Traditional Medicine
Strategy (1999-2005), from
the first global survey to
the second global survey
(2005-2012) and from the
second survey to the most
recent timeline (2012-2018).
According to an August 2009

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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

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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.

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There is a wealth of 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

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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

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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

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and 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

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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

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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 of

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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

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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

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functional ingredients Part
of the Functional Food
Science and Technology book
series (Series Editor:
Fereidoon Shahidi)
Scaling Physiological
Processes
Functional Food Product

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Development

Environmental Science and
Engineering

Environmental Engineering

COVID-19 in the Global South

***Written by experts from
London's renowned Royal Free
Hospital, Textbook of Plastic***

Page 128/162

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***and Reconstructive Surgery
offers a comprehensive
overview of the vast topic of
reconstructive plastic surgery
and its various subspecialties
for introductory plastic
surgery and surgical science***

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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

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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

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***reconstruction, ear
reconstruction and genital
reconstruction. A chapter on
aesthetic surgery includes
facial aesthetic surgery and
blepharoplasty, aesthetic
breast surgery, body***

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contouring and the evolution of hair transplantation. The broad scope of this volume and attention to often neglected specialisms such as military plastic surgery make this a unique contribution to the

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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

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***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](https://www.jisc.ac.uk/rd/projects/institution-as-e-textbook-publisher)
Traditional plant physiological***

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***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***

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in plant success in a particular habitat. This book focuses on extending concepts from plant physiological ecology as a basis for understanding carbon, energy, and biogeochemical cycles at

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ecosystem, regional, and global levels. This will be a valuable resource for researchers and graduate students in ecology, plant ecophysiology, ecosystem research, biometerology, earth

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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

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***ecological scaling * Models
and technologies for scaling
Focused on current
environmental problems, their
causes, effects, and solutions,
this text explores the basic
nature of the natural systems.***

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***Using a technical
(quantitative) approach -
unusual for a book at the
introductory level - it
maintains a broad perspective
that appeals to all students,
but at the same time is useful***

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to those proceeding further in environmental or sanitary engineering. *features unusually broad and balanced coverage of topics: in addition to the traditional topics of water quality, wastewater

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treatment, and air pollution, it explains the root causes of environmental problems and clarifies the relationships between natural systems and technology. *provides discussions on solid and

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***hazardous wastes,
environmental management,
and ethics - topics seldom
found in a single text. *offers
an authoritative perspective on
both theory and practice: the
authors are world renowned***

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scientists and engineers with academic and practical experience in environmental matters. *NEW - discusses the changing role of technology - e.g., preventive technology as an alternative to traditional

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***end-of-pipe solutions. *NEW -
considers recent data on the
causes of environmental problems
Transdisciplinary Perspectives
on Transitions to
Sustainability
The Waste Management***

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Approach to the 21st Century
Introduction to Mechanics
Introduction to Environmental
Science and Technology
Encyclopedia of Global
Warming and Climate Change
Future scientists, engineers, public

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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

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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,

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developing improved waste water treatment, including the development of more eco-friendly process and importance on conservation. Issues such as environmental assessments now play a most important role in practically all proposed developments.

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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

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