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Historical Distillates examines the

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history of the Chemistry
Department at the University of
Toronto from its beginnings in
1843, when it was housed in
simple quarters in the Parliament
Buildings on Front Street and had
just one faculty member. During
the founding era (1843-1920)

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three British gentlemen professors guided the department through four homes; between 1920 and 1960 three Canadian heads built a highly influential department. Since 1960 eight chairmen have effectively managed a growing and diverse department while it

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ventured into exciting new fields and emerging sub-disciplines. New colleges and a Nobel Prize have been highlights of the past two decades. With the completion of recent renovations and additions (such as the Davenport Research Building and Garden), with its

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distinguished faculty, top-rate staff, and excellent students, and with its dazzling array of equipment to support research, the department ' s future indeed looks bright.

This book focuses on the interaction between different

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energy vectors, that is, between electrical, thermal, gas, and transportation systems, with the purpose of optimizing the planning and operation of future energy systems. More and more renewable energy is integrated into the electrical system, and to

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optimize its usage and ensure that its full production can be hosted and utilized, the power system has to be controlled in a more flexible manner. In order not to overload the electrical distribution grids, the new large loads have to be controlled using demand response,

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perchance through a hierarchical control set-up where some controls are dependent on price signals from the spot and balancing markets. In addition, by performing local real-time control and coordination based on local voltage or system frequency

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measurements, the grid hosting limits are not violated.

Praise for the first edition: “ This is an excellent teaching guide and resource manual for instructors, gerontological nursing students, and practicing nurses and social workers who wish to learn more

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about geriatric concerns and care. It will be kept by nursing students long after they graduate as a guide to resources that will be valuable throughout their nursing careers. As a home care nurse working mainly with the geriatric community, I found the resources

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helpful in my practice. As an instructor, I found the book to be a very useful guide for teaching geriatrics. ” Score: 90, 4 Stars —Doody ’ s Medical Reviews “ [This] is a unique volume that effectively addresses the lack of gerontology case studies for use with

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undergraduate nursing students. Case studies are a pedagogically powerful approach to active learning that offer opportunities to apply content to clinical practice. ”
—The Gerontologist “ The case narrative approach of this book promotes active learning that is

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more meaningful to students (and practicing nurses) and more likely to increase the transfer of evidence into practice. An excellent resource for faculty (staff educators) to facilitate critical learning skills. ” —Liz Capezuti, PhD, RN, FAAN Dr. John

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W. Rowe Professor in Successful
Aging Co-Director, Hartford
Institute for Geriatric Nursing New
York University College of Nursing
Vivid case examples help guide
nurses in developing appropriate
interventions that include
complementary and alternative

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health therapies and provide a basis for evaluating outcomes. Exercises interspersed throughout each case study include numerous open-ended and multiple-choice questions to facilitate learning and critical thinking. The text is unique in that some of the presented

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cases focus on psychosocial issues such as gambling addiction, hoarding behavior, emergency preparedness, and long-distance caregiving. Cases also depict geriatric clients who are living healthy, productive lives to counter myths and negative

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attitudes about older adults.

Scenarios demonstrating ethical dilemmas prepare students to appropriately respond to “gray area” situations. The text is geared for AACN and NLN accreditation and is organized according to the needs of actual

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clinical settings. With cases that take place in the home and community or within primary, acute, and long-term care facilities, this book will be useful for courses specific to gerontology nursing or across any nursing curriculum. New to the Second

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Edition: A completely new section of Aging Issues Affecting the Family New cases addressing health care disparities, aging in place, and prevention of catheter-associated urinary tract infection Additional contemporary case studies The addition of Quality for

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Safety in Nursing Education

(QSEN) initiatives A greater focus
on prioritization and delegation of
client ' s needs infused throughout
exercises

This Fearful Slumber

Applied Hierarchical Modeling in
Ecology: Analysis of Distribution,

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Abundance and Species Richness
in R and BUGS

Bayesian Models for Astrophysical
Data

Principles, Practices, and
Treatment Planning

A Practical Guide

During his distinguished

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career spanning more than 50 years, Nobel laureate (Chemistry) Glenn T Seaborg published over 500 works. This volume puts together about 100 of his selected papers. The papers are divided into five

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categories. Category I consists of papers which detail the discovery of 10 transuranium elements and numerous heavy isotopes of special importance. Category II papers describe the discovery of a number of

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isotopes which became the workhorses of nuclear medicine or found other applications. Papers in Category III describe how the chemical properties of transuranium elements were originally determined, how

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chemistry is applied in nuclear sciences, and other chemical investigations, including early work done with the great chemist G N Lewis. Papers in Category IV cover radioactive decay chains and nuclear

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systematics. Lastly, papers in Category V illustrate how the powerful methods of chemistry are used to explain nuclear reactions in low, intermediate and high energy nuclear physics. The study of the

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extracellular matrix (ECM) and its diverse roles in tissue scaffolding and cellular signaling in both physiological and pathological processes has significantly expanded over the past decade. Although

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well appreciated, the structural and biochemical complexity and the dynamic nature of the living matrix are still under extensive investigation, yielding a growing number of methods with varying degree of

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sophistication and intricacy. In this edition of Extracellular Matrix Protocols, we compiled a variety of methods that can be readily reproduced in most cell biology laboratories, as well as

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several cutting-edge technologies that are indeed available in a limited number of centers, but are well worth the awareness and exposure to the ECM research community. As in the previous edition, the book

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chapters are divided into sections that represent molecular biology techniques to study gene expression, biophysical and biochemical methods for the analysis of structure and composition, cell biology methods for the

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assessment of cell behavior and matrix assembly and tissue engineering applications. All chapters were contributed by scientists who developed the methods or mastered and perfected methods that were

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routinely used in their laboratories. An effort was made to provide practical working details and helpful notes for the nonexpert user in order to assist reproducibility and accuracy. We hope that these

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valuable protocols will become helpful tools for ECM researchers and will be further developed and tailored to the specific needs of a growing number of applications.

This book is a printed

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edition of the Special Issue
"Soft Tissue and Bone
Sarcoma" that was published
in Cancers

Bayesian Data Analysis in
Ecology Using Linear Models
with R, BUGS, and Stan
Human Enhancement Drugs

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Population Genomics

Modern Alchemy

A Symposium

**This book serves as a practical
guide for the use of carbon ions in
cancer radiotherapy. On the basis
of clinical experience with more
than 7,000 patients with various**

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types of tumors treated over a period of nearly 20 years at the National Institute of Radiological Sciences, step-by-step procedures and technological development of this modality are highlighted. The book is divided into two sections, the first covering the underlying

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**principles of physics and biology,
and the second section is a
systematic review by tumor site,
concentrating on the role of
therapeutic techniques and the
pitfalls in treatment planning.
Readers will learn of the superior
outcomes obtained with carbon-ion**

therapy for various types of tumors in terms of local control and toxicities. It is essential to understand that the carbon-ion beam is like a two-edged sword: unless it is used properly, it can increase the risk of severe injury to critical organs. In early series of

dose-escalation studies, some patients experienced serious adverse effects such as skin ulcers, pneumonitis, intestinal ulcers, and bone necrosis, for which salvage surgery or hospitalization was required. To preclude such detrimental results, the adequacy of

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therapeutic techniques and dose fractionations was carefully examined in each case. In this way, significant improvements in treatment results have been achieved and major toxicities are no longer observed. With that knowledge, experts in relevant

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fields expand upon techniques for treatment delivery at each anatomical site, covering indications and optimal treatment planning. With its practical focus, this book will benefit radiation oncologists, medical physicists, medical dosimetrists, radiation

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**therapists, and senior nurses
whose work involves radiation
therapy, as well as medical
oncologists and others who are
interested in radiation therapy.
Population genomics has
revolutionized various disciplines
of biology including population,**

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evolutionary, ecological and conservation genetics, plant and animal breeding, human health, medicine and pharmacology by allowing to address novel and long-standing questions with unprecedented power and accuracy. It employs large-scale or

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genome-wide genetic information and bioinformatics to address various fundamental and applied aspects in biology and related disciplines, and provides a comprehensive genome-wide perspective and new insights that were not possible before. These

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**advances have become possible
due to the development of new and
low-cost sequencing and
genotyping technologies and novel
statistical approaches and software,
bioinformatics tools, and models.
Population genomics is
tremendously advancing our**

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understanding the roles of evolutionary processes, such as mutation, genetic drift, gene flow, and natural selection, in shaping up genetic variation at individual loci and across the genome and populations; improving the assessment of population genetic

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parameters or processes such as adaptive evolution, effective population size, gene flow, admixture, inbreeding and outbreeding depression, demography, and biogeography; resolving evolutionary histories and phylogenetic relationships of

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**extant, ancient and extinct species;
understanding the genomic basis of
fitness, adaptation, speciation,
complex ecological and
economically important traits, and
disease and insect resistance;
facilitating forensics, genetic
medicine and pharmacology;**

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delineating conservation genetic units; and understanding the genetic effects of resource management practices, and assisting conservation and sustainable management of genetic resources. This Population Genomics book discusses the

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concepts, approaches, applications and promises of population genomics in addressing most of the above fundamental and applied crucial aspects in a variety of organisms from microorganisms to humans. The book provides insights into a range of emerging

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**population genomics topics
including population epigenomics,
landscape genomics, seascape
genomics, paleogenomics,
ecological and evolutionary
genomics, biogeography,
demography, speciation, admixture,
colonization and invasion, genomic**

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selection, and plant and animal domestication. This book fills a vacuum in the field and is expected to become a primary reference in Population Genomics world-wide. This edition includes both updates and new uses and issues concerning CTS, along with case

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studies of how clinical trial simulations are being applied in various therapeutic and application areas. Importantly, the book expands on the utility of CTS for informing decisions during drug development and regulatory review. Each chapter author was selected

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on the basis of demonstrated expertise in state-of-the-art application of CTS. The target audience for this volume includes researchers and scientists who wish to consider use of simulations in the design, analysis, or regulatory review and guidance of

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clinical trials. This book does not embrace all aspects of trial design, nor is it intended as a complete recipe for using computers to design trials. Rather, it is an information source that enables the reader to gain understanding of essential background and

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knowledge for practical applications of simulation for clinical trial design and analysis. It is assumed that the reader has a working understanding of pharmacokinetics and pharmacodynamics, modeling, pharmacometric analyses, and/or

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**the drug development and
regulatory processes.**

Extracellular Matrix Protocols

Handling Cytostatic Drugs

**Chemistry at the University of
Toronto since 1843**

Carbon-Ion Radiotherapy

Concepts, Approaches and

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Applications

Wood composites have shown very good performance, and substantial service lives when correctly specified for the exposure risks present. Selection of an

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*appropriate product for
the job should be
accompanied by decisions
about the appropriate
protection, whether this
is by design, by
preservative treatment or*

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*by wood modification
techniques. This Special
Issue, Advances in Wood
Composites presents recent
progress in enhancing and
refining the performance
and properties of wood*

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composites by chemical and thermal modification and the application of smart nanomaterials, which have made them a particular area of interest for researchers. In addition,

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*it reviews some important
aspects in the field of
wood composites, with
particular focus on their
materials, applications,
and engineering and
scientific advances,*

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*including solutions
inspired biomimetrically
by the structure of wood
and wood composites. This
Special Issue, with a
collection of 13 original
contributions, provides*

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*selected examples of
recent Advances in Wood
Composites*

*Despite increasing
interest in the use of
human enhancement drugs
(HEDs), our understanding*

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*of this phenomenon and the
regulatory framework used
to address it has lagged
behind. Encompassing
public health,
epidemiology, neuroethics,
sport science,*

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*criminology, and
sociology, this book
brings together a broad
spectrum of scholarly
insights and research
expertise from leading
authorities to examine key*

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*international issues in
the field of HEDs. As
"traditional" and other
"new" drug markets have
occupied much of the
academic attention, there
has been a lack of*

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*scholarly focus on human
enhancement drugs. This
book provides readers with
a much-needed
understanding of the
illicit drug market of
HEDs. The authors, from a*

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*variety of cultural
contexts, disciplines and
perspectives, include both
academics and
practitioners. Topics
explored in this
collection amongst others*

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include:

- *The anti-doping industry and performance and image enhancing drugs*
- *Steroids and gender*
- *The use of cognitive enhancing drugs in academia*
- *The use of*

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*sunless synthetic tanning
products • The (online)
trade of HEDs •*

*Regulations of the
enhancement drugs market
This collection will serve
as a reference for*

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*students, academics,
practitioners, law
enforcement and others
working in this area to
reflect on the current
state of research and
consider future*

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priorities. This detailed exploration will provide a valuable knowledge base for those interested in human enhancement drugs, while also promoting critical discussion.

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*Put together by a team of
scientists, engineers,
regulators, and lawyers,
the Chromium(VI) Handbook
consolidates the latest
literature on this topic.
The broad scope of this*

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book fills the need for a comprehensive resource on chromium(VI), improving the knowledge of this contaminant at a time when the extent and degree of the problem is still being

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Data Mining Algorithms

Themes, Issues and

Critical Debates

Integration of Renewables

in Power Systems by Multi-

Energy System Interaction

Applications and Trends

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*Volume 2: Dynamic and
Advanced Models*

This user-friendly guide is the only complete resource that identifies and describes all the amphibians and reptiles—salamanders, frogs and toads, lizards, snakes, and tortoises and turtles—that live in

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California. The species are described in richly detailed accounts that include range maps, lifelike color paintings by Robert C. Stebbins, clear drawings of various life stages including eggs, notes on natural history, and conservation status. Easy-to-use keys for every

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order help identify species, and informative chapters cover more general topics including evolution, habitat loss, and photography. Throughout, anecdotes and observations reveal new insights into the lives of California's abundant but often hidden

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amphibians and reptiles.

A guilty liberal finally snaps, swears off plastic, goes organic, becomes a bicycle nut, turns off his power, and generally becomes a tree-hugging lunatic who tries to save the polar bears and the rest of the planet from environmental catastrophe

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while dragging his baby daughter and Prada-wearing, Four Seasons-loving wife along for the ride. And that's just the beginning. Bill McKibben meets Bill Bryson in this seriously engaging look at one man's decision to put his money where his mouth is and go off the

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grid for one year—while still living in New York City—to see if it's possible to make no net impact on the environment. In other words, no trash, no toxins in the water, no elevators, no subway, no products in packaging, no air-conditioning, no television . . . What would it be

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like to try to live a no-impact lifestyle? Is it possible? Could it catch on? Is living this way more satisfying or less satisfying? Harder or easier? Is it worthwhile or senseless? Are we all doomed or can our culture reduce the barriers to sustainable living so it becomes

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as easy as falling off a log? These are the questions at the heart of this whole mad endeavor, via which Colin Beavan hopes to explain to the rest of us how we can realistically live a more "eco-effective" and by turns more content life in an age of

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inconvenient truths.

The seventh case for West Lothian private investigator, Jack Black, starts with the discovery of an elderly man hanged in his own home. Then another murder takes place ... and another ... and soon Jack is in regions of the human

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heart and mind he has never experienced before. Not for the faint-hearted.

U.S. Geological Survey programs
Chromium(VI) Handbook
United States Geological Survey
The Dudley Herbarium
A Compilation of Water Quality

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Goals

Colorado Flora describes the remarkable flora of the state, distinctive in its altitudinal range, numerous microhabitats, and ancient and rare plants. Together, these volumes are designed

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to educate local amateurs
and professionals in the
recognition of vascular
plant species so that they
can be better stewards of
our priceless and
irreplaceable biological
heritage. These thoroughly

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revised and updated editions reflect current taxonomic knowledge. The authors describe botanical features of this unparalleled biohistorical region and its mountain ranges, basins, and plains and discuss plant

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geography, giving detailed notes on habitat, ecology, and range. The keys contain interesting anecdotes and introductions for each plant family. Each volume includes a background of botanical work in the state, a

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complete glossary, indices to common and scientific names, references and suggested readings, and hundreds of illustrations. The books also contain a new contribution from Donald R. Farrar and Steve J. Popovich

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on moonworts. The fourth editions of Colorado Flora: Eastern Slope and Colorado Flora: Western Slope are ideal for both student and scientist and essential for readers interested in Colorado's plant life.

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Applied Hierarchical
Modeling in Ecology:
Analysis of Distribution,
Abundance and Species
Richness in R and BUGS,
Volume Two: Dynamic and
Advanced Models provides a
synthesis of the state-of-

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the-art in hierarchical models for plant and animal distribution, also focusing on the complex and more advanced models currently available. The book explains all procedures in the context of hierarchical

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models that represent a unified approach to ecological research, thus taking the reader from design, through data collection, and into analyses using a very powerful way of synthesizing

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data. Makes ecological modeling accessible to people who are struggling to use complex or advanced modeling programs
Synthesizes current ecological models and explains how they are inter-

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connected Contains numerous
examples throughout the
book, walking the reading
through scenarios with both
real and simulated data
Provides an ideal resource
for ecologists working in R
software and in BUGS

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software for more flexible
Bayesian analyses

Algae have a long history of
use as foods and for the
production of food
ingredients. There is also
increasing interest in their
exploitation as sources of

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bioactive compounds for use
in functional foods and
nutraceuticals. Functional
ingredients from algae for
foods and nutraceuticals
reviews key topics in these
areas, encompassing both
macroalgae (seaweeds) and

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microalgae. After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals, part one explores the

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structure and occurrence of the major algal components. Chapters discuss the chemical structures of algal polysaccharides, algal lipids, fatty acids and sterols, algal proteins, phlorotannins, and pigments

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and minor compounds. Part two highlights biological properties of algae and algal components and includes chapters on the antioxidant properties of algal components, anticancer agents derived from marine

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algae, anti-obesity and anti-diabetic activities of algae, and algae and cardiovascular health.

Chapters in part three focus on the extraction of compounds and fractions from algae and cover conventional

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and alternative technologies for the production of algal polysaccharides. Further chapters discuss enzymatic extraction, subcritical water extraction and supercritical CO₂ extraction of bioactives from algae,

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and ultrasonic- and
microwave-assisted
extraction and modification
of algal components.
Finally, chapters in part
four explore applications of
algae and algal components
in foods, functional foods

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and nutraceuticals including
the design of healthier
foods and beverages
containing whole algae,
prebiotic properties of
algae and algae-supplemented
products, algal
hydrocolloids for the

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production and delivery of
probiotic bacteria, and
cosmeceuticals from algae.
Functional ingredients from
algae for foods and
nutraceuticals is a
comprehensive resource for
chemists, chemical engineers

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and medical researchers with an interest in algae and those in the algaculture, food and nutraceutical industries interested in the commercialisation of products made from algae. Provides an overview of the

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major compounds in algae,
considering both macroalgae
(seaweeds) and microalgae
Discusses methods for the
extraction of bioactives
from algae Describes the use
of algae and products
derived from them in the

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food and nutraceutical
industries

The Adventures of a Guilty
Liberal Who Attempts to Save
the Planet, and the
Discoveries He Makes About
Himself and Our Way of Life
in the Process

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Historical Distillates

Western Slope, Fourth

Edition A Field Guide to the

Vascular Plants

Revised Edition

Toxic Substances Hydrology

Program

"This book narrows down

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***the scope of data mining
by adopting a heavily
modeling-oriented
perspective"--***

***The second edition of this
text has been thoroughly
revised and updated to***

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***ensure that it continues
to provide a
comprehensive survey of
social work practice and
theory. New chapters
covering the changing
nature of social work and***

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***advocacy and
empowerment approaches
have been included, and
the editors have added a
new conclusion in which
they reflect on the past,
present and future of***

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***social work. All of the
chapters have been
revised to cover the most
recent debates and
developments in research
and practice.***

A hands-on guide to

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***Bayesian models with R,
JAGS, Python, and Stan
code, for a wide range of
astronomical data types.
Including a Case Study of
Terman's Restructuring
of the Biology***

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Department

Social Work

***100+ Narratives for
Learning***

Second Edition

Central Hardwood

Silviculture and Ecology

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Bayesian Data Analysis in Ecology Using Linear Models with R, BUGS, and STAN examines the Bayesian and frequentist methods of conducting data analyses. The book provides the theoretical background in an easy-to-

***understand approach,
encouraging readers to
examine the processes that
generated their data.
Including discussions of
model selection, model
checking, and multi-model
inference, the book also uses***

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***effect plots that allow a
natural interpretation of data.
Bayesian Data Analysis in
Ecology Using Linear Models
with R, BUGS, and STAN
introduces Bayesian software,
using R for the simple modes,
and flexible Bayesian***

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**software (BUGS and Stan) for
the more complicated ones.
Guiding the reader from easy
toward more complex (real)
data analyses in a step-by-
step manner, the book
presents problems and
solutions—including all R**

codes—that are most often applicable to other data and questions, making it an invaluable resource for analyzing a variety of data types. Introduces Bayesian data analysis, allowing users to obtain uncertainty

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***measurements easily for any
derived parameter of interest
Written in a step-by-step
approach that allows for
eased understanding by non-
statisticians Includes a
companion website
containing R-code to help***

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***users conduct Bayesian data
analyses on their own data All
example data as well as
additional functions are
provided in the R-package
blmeco***

***Advances in Wood Composites
Functional Ingredients from***

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***Algae for Foods and
Nutraceuticals
Soft Tissue and Bone Sarcoma
Ultrasound in Biology and
Medicine
Colorado Flora***