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This volume is concerned with vibration-free and quiet operation of hydraulic machines. It deals with the problems caused by mechanical and hydraulic excitations in hydraulic

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machinery (except for transients which are treated in a separate volume). The invited authors from five continents are internationally recognized experts in their fields. The book looks at the fundamentals for analysis of fluid structure systems, structural vibration,

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shaft rotordynamics and system instability; noise and diagnosis are introduced with examples from practical experience. This comprehensive, authoritative treatise covers all aspects of mucosal vaccines including their development, mechanisms of action,

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molecular/cellular aspects, and practical applications. The contributing authors and editors of this one-of-a-kind book are very well known in their respective fields. Mucosal Vaccines is organized in a unique format in which basic, clinical, and practical aspects of the mucosal immune

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system for vaccine development are described and discussed. This project is endorsed by the Society for Mucosal Immunology. Provides the latest views on mucosal vaccines Applies basic principles to the development of new vaccines Links basic, clinical, and practical

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aspects of mucosal vaccines to different infectious diseases Unique and user-friendly organization Stem cells have been gaining a lot of attention in recent years. Their unique potential to self-renew and differentiate has turned them into an attractive model for the study of basic

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biological questions such as cell division, replication, transcription, cell fate decisions, and more. With embryonic stem (ES) cells that can generate each cell type in the mammalian body and adult stem cells that are able to give rise to the cells within a given lineage, basic

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questions at different developmental stages can be addressed. Importantly, both adult and embryonic stem cells provide an excellent tool for cell therapy, making stem cell research ever more pertinent to regenerative medicine. As the title *The Cell Biology of Stem Cells* suggests,

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our book deals with multiple aspects of stem cell biology, ranging from their basic molecular characteristics to the in vivo stem cell trafficking of adult stem cells and the adult stem-cell niche, and ends with a visit to regeneration and cell fate reprogramming. In the

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first chapter, “Early embryonic cell fate decisions in the mouse”, Amy Ralson and Yojiro Yamanaka describe the mechanisms that support early developmental decisions in the mouse pre-implantation embryo and the current understanding of the

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source of the most immature stem cell types, which includes ES cells, trophoblast stem (TS) cells and extraembryonic endoderm stem (XEN) cells.

Calculus

Construction

Equipment Ownership
and Operating

Expense Schedule

Combined

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Aquaculture and
Hydroponic
Production
Technologies for the
Future
Nano-Antimicrobials
Canadian Forest
Industries
Aquaponics Food
Production Systems
Cavitation and
Bubble Dynamics
deals with

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fundamental
physical processes
of bubble dynamics
and cavitation for
graduate students
and researchers.

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AUTHOR NAME
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PUBLICATIONS"
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JOURNALS &

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with a cool & trendy
colorful cover.

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9 giving plenty of
writing space to

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prepare for each day ahead. This Journal is perfect to help: Keep on top of tasks & activities Stay organized with planning Keep track of personal health & medications Noting down things you want to do or read Documenting Life Noting down ideas

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The field of organometallic chemistry has enjoyed explosive growth in recent years. During this time a rapidly increasing number of metals have found utility in organic synthesis as the corresponding

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organometallic compounds. The subject of "Organic Synthesis by Means of Transition Metal Complexes" was reviewed in the first volume of this series of monographs. This volume deals primarily with the application of organomercury

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compounds in organic synthesis (exclusive of solvomercuration-demercuration reactions), but will of necessity involve a number of reactions of other organometallics as well.

Organomercurials are among the

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oldest known organo metallics and were perhaps the first to have an entire book devoted to their chemistry, when Whitmore wrote an American Chemical Society monograph on the subject in 1921. Subsequently, two very detailed

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monographs on the subject have appeared. In 1967 "The Organic Compounds of Mercury", volume 4 in the series "Methods of Elemento Organic Chemistry" appeared and this was followed in 1974 by Houben

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Weyl's full volume,
Band XIII/2b,
devoted entirely to
the organometallic
compounds of
mercury. These
books cover the
entire field of
organomercury
chemistry.

Functional Cobalt
Oxides

Priscilla Journal

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Introduction to Sol-

Gel Processing

Peatlands

International

Northeast Region

Official Guide

Recent Advances in

Intelligent

Information Systems

and Applied

Mathematics

Since the

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pioneering
work of Euler,
Dirichlet, and
Riemann, the
analytic
properties of
L-functions
have been used
to study the
distribution
of prime
numbers. With

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the advent of
the Langlands
Program, L-
functions have
assumed a
greater role
in the study
of the
interplay
between
Diophantine
questions

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about primes
and
representation
theoretic
properties of
Galois represe
ntations. The
present book
provides a
complete
introduction
to the most

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significant
class of L-
functions: the
Artin-Hecke L-
functions
associated to
finite-
dimensional re-
presentations
of Weil groups
and to
automorphic L-

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functions of
principal type
on the general
linear group.
In addition to
establishing
functional
equations,
growth
estimates, and
non-vanishing
theorems, a

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thorough
presentation
of the
explicit
formulas of
Riemann type
in the context
of Artin-Hecke
and
automorphic L-
functions is
also given.

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The survey is aimed at mathematicians and graduate students who want to learn about the modern analytic theory of L-functions and their

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applications
in number
theory and in
the theory of
automorphic re
presentations.
The
requirements
for a
profitable
study of this
monograph are

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a knowledge of
basic number
theory and the
rudiments of
abstract
harmonic
analysis on
locally
compact
abelian
groups .
This book

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analyzes and
discusses in
detail art
therapy, a
specific tool
used to
sustain health
in affective
developments,
rehabilitation
, motor skills
and cognitive

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functions. Art
therapy is
based on the
assumption
that the
process of
making art
(music, dance,
painting)
sparks
emotions and
enhances brain

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activity. Art
therapy is
used to
encourage
personal
growth,
facilitate
particular
brain areas or
activity
patterns, and
improve neural

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connectivity.
Treating
neurological
diseases using
artistic
strategies
offers us a
unique option
for engaging
brain
structural
networks that

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enhance the
brain's
ability to
form new
connections.
Based on brain
plasticity,
art therapy
has the
potential to
increase our
repertoire for

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treating
neurological
diseases.

Neural
substrates are
the basis of
complex
emotions
relative to
art
experiences,
and involve a

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widespread
activation of
cognitive and
motor systems.
Accordingly,
art therapy
has the
capacity to
modulate
behavior,
cognition,
attention and

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movement. In
this context,
art therapy
can offer
effective
tools for
improving
general well-
being, quality
of life and
motivation in
connection

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with

neurological
diseases. The
book discusses
art therapy as
a potential
group of
techniques for
the treatment
of
neurological
disturbances

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and approaches
the
relationship
between
humanistic
disciplines
and neurology
from a
holistic
perspective,
reflecting the
growing

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interest in
this interconn
ection.

This book will
give an
overview on
viruses
undergoing
proteolytic
activation
through host
proteases. The

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chapters will
be organized
in three
themed parts,
the first part
describing
respective
viruses and
their characte
ristics in
detail. In the
second part

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the molecular
and cellular
biology of the
proteases
involved as
well as their
physiological
functions will
be further
explored. The
third part
will contain a

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chapter on
protease
inhibitors
that are
promising
tools for
antiviral
therapy. This
book will
engage
scholars in
virology and

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medical
microbiology
as well as
researchers
with an
interest in
enzymology and
protein
structure and
function
relationship.
From

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**Aesthetics to
Therapeutics
Progress and
Prospects
Activation of
Viruses by
Host Proteases
Bulk Metallic
Glasses
Computational
Statistical
Mechanics**

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Brain and Art

Computational

Statistical

Mechanics

describes the use

of fast computers

to simulate the

equilibrium and

nonequilibrium

properties of

gases, liquids,

and solids at, and

away from

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equilibrium. The underlying theory is developed from basic principles and illustrated by applying it to the simplest possible examples.

Thermodynamics, based on the ideal gas thermometer, is related to Gibb's

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***statistical
mechanics
through the use
of Nosé-Hoover
heat reservoirs.
These reservoirs
use integral
feedback to
control
temperature. The
same approach is
carried through
to the simulation***

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and analysis of nonequilibrium mass, momentum, and energy flows. Such a unified approach makes possible consistent mechanical definitions of temperature, stress, and heat

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***flux which lead to
a microscopic
demonstration of
the Second Law
of
Thermodynamics
directly from
mechanics. The
intimate
connection
linking Lyapunov-
unstable
microscopic***

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***motions to
macroscopic
dissipative flows
through
multifractal
phase-space
structures is
illustrated with
many examples
from the recent
literature. The
book is well-
suited for***

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***undergraduate
courses in
advanced
thermodynamics,
statistical
mechanic and
transport theory,
and graduate
courses in
physics and
chemistry.
Zeolite scientists,
whether they are***

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***working in
synthesis,
catalysis,
characterization
or application
development, use
the Atlas of
Zeolite
Framework Types
as a reference. It
describes the
main features of
all of the***

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**confirmed zeolite
framework
structures, and
gives references
to the relevant
primary
structural
literature. Since
the last edition
34 more
framework types
have been
approved and are**

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described in this new edition. A further new feature will be that characteristic building units will be listed for each of the framework types. Zeolites and their analogs are used as desiccants, as

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***water softeners,
as shape-
selective acid
catalysts, as
molecular sieves,
as concentrators
of radioactive
isotopes, as
blood clotting
agents, and even
as additives to
animal feeds.
Recently, their***

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***suitability as
hosts for
nanometer
spacing of atomic
clusters has also
been
demonstrated.
These diverse
applications are a
reflection of the
fascinating
structures of
these***

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microporous materials. Each time a new zeolite framework structure is reported, it is examined by the Structure Commission of the International Zeolite Association (IZA-

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SC), and if it is found to be unique and to conform to the IZA-SC's definition of a zeolite, it is assigned a 3-letter framework type code. This code is part of the official IUPAC

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nomenclature for microporous materials. The Atlas of Zeolite Framework Types is essentially a compilation of data for each of these confirmed framework types. These data include a stereo drawing showing

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***the framework
connectivity,
features that
characterize the
idealized
framework
structure, a list
of materials with
this framework
type, information
on the type
material that was
used to establish***

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***the framework
type, and stereo
drawings of the
pore openings of
the type
material. * Clear
stereo drawings
of each of the
framework types
* Description of
the features of
the framework
type, allowing***

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**readers to
quickly see if the
framework type
is suitable to
their needs ***
**References to
isotypic
materials,
readers can
quickly identify
related materials
and consult the
appropriate**

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reference

This book explores why cobalt oxides have drawn interest as functional materials due to their peculiar physical properties partially originating from

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a rich variety of the valence and spin state of cobalt ions. The book starts with the basics of condensed matter physics and advances toward the strong electron correlation system stage. It

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also provides up-to-date information on topics, such as thermoelectric power, superconductivity, solid oxide fuel cells, and nanostructure effect.

Molding the Flow of Light - Second

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Edition

Construction

Equipment

Ownership and

Operating

Expense

Schedule: Region

III - v. 4. Region

IV

Advances in

Chitin/Chitosan

Characterization

and Applications

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***Handbook of
Drug Metabolism,
Third Edition
Public Works
Manual
Cavitation and
Bubble Dynamics
Reflecting the
fast pace of
research in the
field, the
Second Edition
of Bulk***

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***Metallic
Glasses has
been thoroughly
updated and
remains
essential
reading on the
subject. It
incorporates
major advances
in glass
forming
ability,***

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***corrosion
behavior, and
mechanical
properties.
Several of the
newly proposed
criteria to
predict the
glass-forming
ability of
alloys have
been discussed.
All other areas***

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covered in this book have been updated, with special emphasis on topics where significant advances have occurred. These include processing of hierarchical surface

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***structures and
synthesis of
nanophase
composites
using the
chemical
behavior of
bulk metallic
glasses and the
development of
novel bulk
metallic
glasses with***

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***high-strength
and high-
ductility and
superelastic
behavior. New
topics such as
high-entropy
bulk metallic
glasses,
nanoporous
alloys, novel
nanocrystalline
alloys, and***

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*soft magnetic
glassy alloys
with high
saturation
magnetization
have also been
discussed.*

*Novel
applications,
such as
metallic glassy
screw bolts,
surface*

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***coatings,
hyperthermia
glasses, ultra-
thin mirrors
and pressure
sensors, mobile
phone casing,
and degradable
biomedical
materials, are
described.***

***Authored by the
world's***

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***foremost
experts on bulk
metallic
glasses, this
new edition
endures as an
indispensable
reference and
continues to be
a one-stop
resource on all
aspects of bulk
metallic***

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glasses.

***In 1967 Walter
K. Hayman
published
'Research
Problems in
Function
Theory', a list
of 141 problems
in seven areas
of function
theory. In the
decades***

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following, this list was extended to include two additional areas of complex analysis, updates on progress in solving existing problems, and

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**over 520
research
problems from
mathematicians
worldwide. It
became known as
'Hayman's
List'. This
Fiftieth
Anniversary
Edition
contains the
complete**

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***'Hayman's List'
for the first
time in book
form, along
with 31 new
problems by
leading
international
mathematicians.
This list has
directed
complex
analysis***

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***research for
the last half-
century, and
the new edition
will help guide
future research
in the subject.
The book
contains up-to-
date
information on
each problem,
gathered from***

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101 3
the

***international
mathematics
community, and
where possible
suggests
directions for
further
investigation.
Aimed at both
early career
and established
researchers,***

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***this book
provides the
key problems
and results
needed to
progress in the
most important
research
questions in
complex
analysis, and
documents the
developments of***

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*the past 50
years.*

*This 5th
edition of the
Zeolite Powder
Pattern
Collection
contains
calculated
patterns of 218
zeolite
materials
representing*

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***174 framework
topologies. The
almost
exponential
growth of new
zeolite
topologies
reflects the
continued
success of
zeolite
synthesis
researchers in***

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***producing novel
materials.***

***Collection of
Simulated XRD
Powder Patterns
for Zeolites
includes
materials of
interest to
zeolite
scientists
following the
policies***

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***established at
recent IZA
conferences.
The materials
included have
corner-sharing
tetrahedral
frameworks with
no restrictions
on chemical
composition.
Covers an
increase of 41***

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*new topologies
since the 4th
edition in 2001
Data collected
from diverse
literature
sources
Represents an
extensive
compilation of
data
Otologic
Surgery*

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***Advanced
Fluorescence
Reporters in
Chemistry and
Biology III
Organomercury
Compounds in
Organic
Synthesis
 p -adic Numbers,
 p -adic
Analysis, and
Zeta-Functions***

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***Proceedings of
the 3rd
International
Conference on
Rotary
Metalworking
Processes, 8-10
September 1984,
Kyoto, Japan
Nitride
Semiconductor
Light-Emitting
Diodes (LEDs)***

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Order from chaos is simultaneously a mantra of physics and a reality in biology. Physicist Norman Packard suggested that life developed and thrives at the edge of chaos. Questions remain, however, as to how much practical knowledge of biology can be traced to

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existing physical principles, and how much physics has to change in order to address the complexity of biology. Phil Anderson, a physics Nobel laureate, contributed to popularizing a new notion of the end of “reductionism.” In this view, it is

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necessary to abandon the quest of reducing complex behavior to known physical results, and to identify emergent behaviors and principles. In the present book, however, we have sought physical rules that can underlie the behavior of biota as well as the

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geochemistry of soil development. We looked for fundamental principles, such as the dominance of water flow paths with the least cumulative resistance, that could maintain their relevance across a wide range of spatial and temporal scales,

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together with the appropriate description of solute transport associated with such flow paths. Thus, ultimately, we address both nutrient and water transport limitations of processes from chemical weathering to vascular plant growth. The physical

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principles guiding our effort are established in different, but related concepts and fields of research, so that in fact our book applies reductionist techniques guided by analogy. The fact that fundamental traits extend across biotic and abiotic processes, i.e., the same fluid

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flow rate is relevant to both, but that distinctions in topology of the connected paths lead to dramatic differences in growth rates, helps unite the study of these nominally different disciplines of geochemistry and geobiology within the

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same framework. It has been our goal in writing this book to share the excitement of learning, and one of the most exciting portions to us has been the ability to bring some order to the question of the extent to which soils can facilitate plant growth, and what

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limitations on plant sizes, metabolism, occurrence, and correlations can be formulated thereby. While we bring order to the soil constraints on growth , we also generate some uncertainties in the scaling relationships of plant growth and metabolism. Although

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we have made an first attempt to incorporate edaphic constraints into allometric scaling, this is but an initial foray into the forest.

With its step-by-step approach and brilliant full-color design, *Otologic Surgery*, 5th Edition, provides the authoritative guidance

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you need to hone your surgical skills and ensure optimal outcomes for your patients. Renowned leaders in the field, led by Drs. Derald Brackmann, Clough Shelton, Moises Arriaga, and Richard K. Gurgel , cover surgical approaches to the ear and skull base,

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techniques, alternate approaches, and controversial issues. Hundreds of crisp line drawings, high-quality photographs, and more than 60 procedural videos provide detailed visual guidance. Covers key procedures such as tympanoplasty and mastoidectomy,

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stapedectomy, and skull base surgery—everything from eardrum repair to complex skull base tumor removal.

Provides step-by-step coverage of each procedure, including patient evaluation, patient selection, and patient counseling.

Offers fully updated

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content throughout,
with new content on
endoscopic ear
procedures,
implantable hearing
devices, and much
more. Includes
pediatric sections and
revision surgery
sections in each
relevant chapter.
Features an expanded
video library covering

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facial reanimation,
endoscopic
techniques,
infratemporal fossa
approach, laser
stapedotomy,
exostosis repair, and
more.

The development of
nitride-based light-
emitting diodes
(LEDs) has led to
advancements in high-

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brightness LED
technology for solid-
state lighting,
handheld electronics,
and advanced
bioengineering
applications. Nitride
Semiconductor Light-
Emitting Diodes
(LEDs) reviews the
fabrication,
performance, and
applications of this

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technology that encompass the state-of-the-art material and device development, and practical nitride-based LED design considerations. Part one reviews the fabrication of nitride semiconductor LEDs. Chapters cover molecular beam epitaxy (MBE) growth

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of nitride
semiconductors,
modern metalorganic
chemical vapor
deposition (MOCVD)
techniques and the
growth of nitride-
based materials, and
gallium nitride
(GaN)-on-sapphire
and GaN-on-silicon
technologies for
LEDs.

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Nanostructured, non-polar and semi-polar nitride-based LEDs, as well as phosphor-coated nitride LEDs, are also discussed.

Part two covers the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable

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LEDs, and LEDs based on quantum wells and quantum dots. Further chapters discuss the development of LED encapsulation technology and the fundamental efficiency droop issues in gallium indium nitride (GaInN) LEDs.

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Finally, part three highlights applications of nitride LEDs, including liquid crystal display (LCD) backlighting, infrared emitters, and automotive lighting.

Nitride Semiconductor Light-Emitting Diodes (LEDs) is a technical resource for academics, physicists,

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materials scientists, electrical engineers, and those working in the lighting, consumer electronics, automotive, aviation, and communications sectors. Reviews fabrication, performance, and applications of this technology that encompass the state-of-

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the-art material and device development, and practical nitride-based LED design considerations Covers the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable LEDs, and LEDs based on quantum

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wells and quantum
dots Highlights
applications of nitride
LEDs, including
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infra-red emitters, and
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and water
contamination.
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the importance
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agricultural
crops to human
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editors have
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chapters
detailing the

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negative
impact of
heavy metals,
excessive
chemical
fertilizer
use,
nutrients,
pesticides,
herbicides,
insecticides,
agricultural

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wastes and
toxic
pollutants,
among others,
on
agricultural
soil and
crops. In
addition, the
chapters offer
solutions to
these negative

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impacts
through
various
scientific
approaches,
including
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ofertilizers,
as well as
potent PGRs
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serves as a
key source of
information on
scientific and
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approaches and
challenges for

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the
bioremediation
of
agricultural
contamination
worldwide.
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should be
helpful for
research
students,
teachers, agri

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culturalists,
agronomists,
botanists, and
plant growers,
as well as in
the fields of
agriculture,
agronomy,
plant science,
plant biology,
and
biotechnology,

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among others.

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an excellent
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the current
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contaminants
in agriculture
from
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rapid

developments,
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omatropgraphy,

biomaterials,

glass science,

and optics. It

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techniques
such as fuzzy
logic, neural
networks, and
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algorithms,
and their
relevance in
building
intelligent
information
systems in

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combination
with applied
mathematics.
The authors
also outline
the
applications
of these
systems in
areas like
intelligent
control and

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robotics,
pattern
recognition,
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diagnosis,
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prediction,
and
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of complex
problems. By
sharing fresh

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ideas and
identifying
new targets/pr
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new directions
for their
future
research. The
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Applications

***This open
access book,
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world experts
in aquaponics
and related
technologies,
provides the
authoritative
and
comprehensive***

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***overview of the
key
aquaculture
and
hydroponic
and other
integrated
systems, socio-
economic and
environmental
aspects.***

Aquaponic

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***systems, which
combine
aquaculture
and vegetable
food
production
offer
alternative
technology
solutions for a
world that is
increasingly***

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***under stress
through
population
growth,
urbanisation,
water
shortages,
land and soil
degradation,
environmental
pollution,
world hunger***

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***and climate
change.***

***Mechanized
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Ownership and
Operating
Expense
Schedule:
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4. Region***

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Schedule Public
Works Manual
Canadian
Forest Industries
Northeast
Region Official
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athématiques
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Drug
Metabolism,
Third
EditionCRC
Press
This book
continues to***

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***be the
definitive
reference on
drug
metabolism
with an
emphasis on
new scientific
and regulatory
developments.
It has been
updated based***

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on

***developments
that have
occurred in
the last 5
years, with
new chapters
on large
molecules
disposition, st
ereo-
selectivity in***

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***drug
metabolism,
drug
transporters
and metabolic
activation of
drugs. Some
chapters have
been prepared
by new
authors who
have emerged***

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***as subject area
experts in the
decade that
has passed
since
publication of
the first
edition.***

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***athématiques
Atlas of
Zeolite
Framework
Types
Advanced
Analytic
Number
Theory: L-
Functions
Fiftieth
Anniversary***

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Edition
Contaminants
in Agriculture
Mucosal
Vaccines

Functional
advanced
biopolymers
have received
far less
attention than
renewable

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biomass

(cellulose,
rubber, etc.)

used for

energy

production.

Among the most

advanced

biopolymers

known is

chitosan. The

term chitosan

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refers to a family of poly saccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere.

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Chitosan has been firmly established as having unique material properties as well as biological activities. Either in its native form or as a chemical

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derivative,
chitosan is
amenable to
being processed—typically
under mild conditions—into
soft materials
such as
hydrogels,
colloidal
nanoparticles,

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or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene transfectability, and metal adsorption—to

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name but a few—chitosan is regarded as a widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and

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for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated account addressing

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some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the

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properties
that underpin
the use of
chitin and
chitosan in
different
fields is key
for boosting
their more
extensive
industrial
utilization,

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as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and applications.

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The key element of any fluorescence sensing or imaging technology is the fluorescence reporter, which transforms the information on

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molecular
interactions
and dynamics
into
measurable
signals of
fluorescence
emission. This
book, written
by a team of
frontline
researchers,

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demonstrates
the broad
field of
applications
of
fluorescence
reporters,
starting from
nanoscopic
properties of
materials,
such as self-

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assembled thin
films,
polymers and
ionic liquids,
through
biological
macromolecules
and further to
living cell,
tissue and
body imaging.
Basic

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information on
obtaining and
interpreting
experimental
data is
presented and
recent
progress in
these
practically
important
areas is

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The book is addressed to a broad interdisciplinary audience.

Since it was first published in 1995, Photonic Crystals has remained the

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definitive
text for both
undergraduates
and
researchers on
photonic band-
gap materials
and their use
in controlling
the
propagation of
light. This

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newly expanded
and revised
edition covers
the latest
developments
in the field,
providing the
most up-to-
date, concise,
and
comprehensive
book available

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on these novel materials and their applications. Starting from Maxwell's equations and Fourier analysis, the authors develop the theoretical

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tools of
photonics
using
principles of
linear algebra
and symmetry,
emphasizing
analogies with
traditional
solid-state
physics and
quantum

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theory. They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces, from one to

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three

dimensions.

This new

edition

includes

entirely new

chapters

describing

important

hybrid

structures

that use band

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gaps or
periodicity
only in some
directions:
periodic
waveguides, ph
otonic-crystal
slabs, and pho
tonic-crystal
fibers. The
authors
demonstrate

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how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters. A new appendix provides an

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overview of
computational
methods for el
ectromagnetism
. Existing
chapters have
been
considerably
updated and
expanded to
include many
new three-

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dimensional
photonic
crystals, an
extensive
tutorial on
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using temporal
coupled-mode
theory,
discussions of
diffraction
and refraction

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at crystal
interfaces,
and more.

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Photonic
Crystals is an
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resource for
students and

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and band-gap-
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introduction
to coupled-
mode theory as
a powerful
tool for
device design

Covers many
new topics,

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including omni directional reflection, anomalous refraction and diffraction, computational photonics, and much more.

Personalized
Custom First
Name Personal

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Writing Diary
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Purple
Watercolor
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Experiences &

Interests

Mechanized

Trail

Equipment

The Physics of

Geobiology and

Geochemistry

Photonic

Crystals

Vibration and

Oscillation of

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Hydraulic
Machinery

The first edition of
this work has
become the
standard
introduction to the
theory of p-adic
numbers at both the
advanced
undergraduate and
beginning graduate

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level. This second edition includes a deeper treatment of p -adic functions in Ch. 4 to include the Iwasawa logarithm and the p -adic gamma-function, the rearrangement and addition of some exercises, the inclusion of an extensive appendix

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of answers and hints to the exercises, as well as numerous clarifications. There is a high demand for antimicrobials for the treatment of new and emerging microbial diseases. In particular, microbes

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developing multidrug resistance have created a pressing need to search for a new generation of antimicrobial agents, which are effective, safe and can be used for the cure of multidrug-resistant microbial infections. Nano-

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antimicrobials offer effective solutions for these challenges; the details of these new technologies are presented here. The book includes chapters by an international team of experts. Chemical, physical, electrochemical,

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photochemical and mechanical methods of synthesis are covered. Moreover, biological synthesis using microbes, an option that is both eco-friendly and economically viable, is presented. The antimicrobial potential of different

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nanoparticles is also covered, bioactivity mechanisms are elaborated on, and several applications are reviewed in separate sections. Lastly, the toxicology of nano-antimicrobials is briefly assessed.