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***Ib Maths
HL 2013
Past
Paper 2***

*This
foundational
work
comprehensively
examines the
current state*

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*of the
genetics,
genomics and
brain circuitry
of psychiatric
and
neurological
disorders. It
consolidates
discoveries of
specific genes
and genomic
regions*

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associated with these conditions, the genetic and anatomic architecture of these syndromes, and addresses how recent advances in genomics are leading to a reappraisal of

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*the biology
underlying
clinical
neuroscience.
In doing so, it
critically
examines the
promise and
limitations of
these
discoveries
toward
treatment, and*

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to the interdisciplinary nature of understanding brain and behavior.

Coverage includes new discoveries regarding autism, epilepsy, intellectual

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*disability,
dementias,
movement
disorders,
language
impairment,
disorders of
attention,
schizophrenia,
and bipolar
disorder.*

*Genomics,
Circuits, and*

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*Pathways in
Clinical
Neuropsychiatry
focuses on key
concepts,
challenges,
findings, and
methods in
genetics,
genomics,
molecular
pathways, brain
circuitry, and*

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related

*neurobiology of
neurologic and
psychiatric
disorders.*

*Provides interd
isciplinary
appeal in
psychiatry,
neurology,
neuroscience,
and genetics*

Identifies key

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*concepts,
methods, and
findings
Includes
coverage of
multiple
disorders from
autism to
schizophrenia
Reviews
specific genes
associated with
disorders*

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*Discusses the
genetic
architecture of
these syndromes
Explains how
recent findings
are influencing
the
understanding
of biology
Clarifies the
promise of
these findings*

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for future

treatment

There are

currently more

than 3600 IB

World Schools

and this number

is growing

annually. The

IB World

Schools

Yearbook is the

official guide

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*to schools
authorised to
offer the
International
Baccalaureate
Primary Years,
Middle Years
Diploma and
Programmes. It
tells you where
the schools are
and what they
offer, and*

**Read Online Ib
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provides up-to-date

information

about the IB

*programmes and
the*

International

Baccalaureate.

This is an

ideal reference

for schools

administration,

parents and

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*education
ministries
worldwide as
it: provides a
comprehensive
reference of IB
World Schools
for quick and
easy access
raises the
profile of
schools within
the IB World*

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School

*community, and
beyond*

*reinforces a
sense of*

*belonging to
the IB World*

School

community

*A fusion of the
full-length and
briefer*

versions that

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*preceded it,
Weiten's*

PSYCHOLOGY:

THEMES AND

VARIATIONS,

11th Edition

combines a

superb thematic

organization

with practical

applications

and examples

that help

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readers see
beyond research
to big-picture
concepts. Often
described as
challenging yet
easy to learn
from, the book
surveys
psychology's
broad range of
content while
illuminating

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*the process of
research and
its
relationship to
application,
showing both
the unity and
diversity of
psychology's
subject matter
and helping
learners master
the basic*

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concepts and principles of psychology with as little struggle as possible.

Weiten's themes provide unifying threads across chapters that help readers to see the

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*connections
among different
research areas
in psychology.
A dynamic
illustration
program further
enhances these
themes.*

*Important
Notice: Media
content
referenced*

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*within the
product
description or
the product
text may not be
available in
the ebook
version.*

*This book
gathers
nineteen papers
presented at
the first NLAGA-*

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*BIRS Symposium,
which was held
at the Cheikh
Anta Diop
University in
Dakar, Senegal,
on June 24-28,
2019. The four-
day symposium
brought
together
African experts
on nonlinear*

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*analysis and
geometry and
their
applications,
as well as
their
international
partners, to
present and
discuss
mathematical
results in
various areas.*

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The main goal of the NLAGA project is to advance and consolidate the development of these mathematical fields in West and Central Africa with a focus on solving real-

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*world problems
such as coastal
erosion,
pollution, and
urban network
and population
dynamics
problems. The
book addresses
a range of
topics related
to partial
differential*

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*equations,
geometrical
analysis of
optimal shapes,
geometric
structures,
optimization
and optimal
transportation,
control theory,
and
mathematical
modeling.*

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*Proceedings of
the 7th*

*International
Conference on
FICTA (2018),*

Volume 1

*Ebook: Life-
Span*

*Development
Extended*

Abstracts

Spring 2019

Mathematics

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*Higher Level
for the IB
Diploma Exam
Preparation
Guide*

Cell

Migrations:

Causes and

Functions

The Cnidaria,

Past, Present

and Future

This title forms part

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of the completely
new Mathematics
for the IB Diploma
series. This highly
illustrated book
covers topic 7 of
the IB Diploma
Higher Level
Mathematics
syllabus, the
optional topic
Statistics and

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Probability. It is also for use with the further mathematics course. Based on the new group 5 aims, the progressive approach encourages cumulative learning. Features

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include: a

dedicated chapter
exclusively for
mixed examination
practice; plenty of
worked examples;
questions colour-
coded according to
grade; exam-style
questions; feature
boxes throughout
of exam hints and

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Past Paper 2

tips and calculator
skills sheets to
support students in
using their Casio
or Texas
calculators.

IB World Schools
Yearbook

2013 John Catt
Educational Ltd

The landscape of
international

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education has
changed
significantly in the
last ten years and
our understanding
of concepts such
as ' international ' ,
'global' and
' multicultural ' are
being re-
evaluated. Fully
updated and

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revised, and now including new contributions from research in South East Asia, the Middle East, China, Japan, Australasia, and North America, the new edition of this handbook analyses the

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origins,

interpretations and

contributions of

international

education and

explores key

contemporary

developments,

including:

internationalism in

the context of

teaching and

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Maths HL 2013
Past Paper 2

learning

leadership,

standards and

quality in

institutions and

systems of

education the

promotion of

internationalism in

national systems

This important

collection of

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research is an essential resource for anyone involved in the practice and academic study of international education, including researchers and teachers in universities,

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governmental and
private curriculum
development
agencies,
examination
authorities,
administrators and
teachers in
schools.

This title forms part
of the completely
new Mathematics

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for the IB Diploma series. This highly illustrated book covers topic 9 of the IB Diploma Higher Level Mathematics syllabus, the optional topic Calculus. It is also for use with the further

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Past Paper 2
mathematics

course. Based on the new group 5 aims, the progressive approach encourages cumulative learning. Features include: a dedicated chapter exclusively for

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Past Paper 2

mixed examination practice; plenty of worked examples; questions colour-coded according to grade; exam-style questions; feature boxes throughout of exam hints and tips.

Mass Schooling,
Academic Power

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Maths HI 2013
Past Paper 2

and the

International
Baccalaureate
Diploma

The Guidance
Gifted Students
Need in MYP to
Take IB DP HL
Further Math as a
Stand Alone
Course
Mathematics

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Past Paper 2

Higher Level for
the IB Diploma
Option Topic 8
Sets, Relations
and Groups
A Quarterly
International
Journal in
Information
Science and
Engineering
Independent

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Schools Yearbook
2012-2013

Neutrosophic Sets
and Systems, vol.
10/2015

***This e-book
focuses primarily
on the role of the
fornix as a
functional,
prognostic, and
diagnostic marker
of Alzheimer's***

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disease (AD), and the application of such a marker in clinical practice. Researchers have long been focused on the cortical pathology of AD, since the most important pathologic features are the senile plaques found in the

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cortex, and the neurofibrillary tangles and neuronal loss that start from the entorhinal cortex and the hippocampus. In addition to gray matter structures, histopathological studies indicate that the white matter is also

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Past Paper 2

altered in AD. The fornix is a white matter bundle that constitutes a core element of the limbic circuits, and is one of the most important anatomical structures related to memory. The fornices originate from the bilateral hippocampi, merge

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Past Paper 2

at the midline of the brain, again divide into the left and right side, and then into the precommissural and the postcommissural fibers, and terminate at the septal nuclei, nucleus accumbens (precommissural fornix), and

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Past Paper 2

hypothalamus (postcommissural fornix). These functional and anatomical features of the fornix have naturally captured researchers' attention as possible diagnostic and prognostic markers of AD. Growing evidence

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indicates that the alterations seen in the fornix are potentially a good marker with which to predict future conversion from mild cognitive impairment to AD, and even from a cognitively normal state to AD. The degree of alteration is

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correlated with the degree of memory impairment, indicating the potential for the use of the fornix as a functional marker. Moreover, there have been attempts to stimulate the fornix to recover the cognitive function lost with

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AD. Our goal is to provide information about the status of current research and to facilitate further scientific and clinical advancement in this topic.

This title forms part of the completely new Mathematics for

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Past Paper 2

the IB Diploma series. This highly illustrated book covers topic 8 of the IB Diploma Higher Level Mathematics syllabus, the optional topic Sets, Relations and Groups. It is also for use with the further mathematics

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Past Paper 2

course. Based on the new group 5 aims, the progressive approach encourages cumulative learning. Features include: a dedicated chapter exclusively for mixed examination practice; plenty of worked examples;

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Maths HL 2013
Past Paper 2

questions colour-coded according to grade; exam-style questions; feature boxes throughout of exam hints and tips.

This book makes an original contribution to credential sociology by analysing how high school certificates

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Maths HL 2013
Past Paper 2

become and remain valuable in a context of mass high school participation (i.e. credentialism). Building on a detailed analysis of the International Baccalaureate (IB) Diploma, a senior secondary school certificate offered

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in over 150 countries, Quentin Maire argues that the advent of new private credentials can be understood as a phenomenon of credential stratification in a context of intensified academic competition. Using original data on

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Past Paper 2

***high school
credentials in
Australia and
internationally, the
author makes a
strong case for
certificates to be
studied
relationally, by
locating them in
the credentialing
structures in which
they are inserted.
He systematically***

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Past Paper 2

applies the comparative method to explain the role of the curriculum, family resources, school segregation and higher education selection in creating a credential hierarchy. His robust combination of theoretical

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Past Paper 2

construction and detailed empirical work allows him to offer new insights into social inequality in education systems, credential theory and the IB Diploma.

This book provides a systematic account of several breakthroughs in

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the modern theory of zeta functions. It contains two different approaches to introduce and study genuine zeta functions for reductive groups (and their maximal parabolic subgroups) defined over number fields. Namely, the

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geometric one, built up from stability of principal lattices and an arithmetic cohomology theory, and the analytic one, from Langlands' theory of Eisenstein systems and some techniques used in trace formula, respectively.

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Maths HL 2013
Past Paper 2

**Apparently
different, they are
unified via a
Lafforgue type
relation between
Arthur's analytic
truncations and
parabolic
reductions of
Harder-Narasimha
n and Atiyah-Bott.
Dominated by the
stability condition
and/or the Lie**

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Maths HL 2013
Past Paper 2

**structures
embedded in,
these zeta
functions have a
standard form of
the functional
equation, admit
much more refined
symmetric
structures, and
most surprisingly,
satisfy a weak
Riemann
hypothesis. In**

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Maths HI 2013
Past Paper 2

addition, two levels of the distributions for their zeros are exposed, i.e. a classical one giving the Dirac symbol, and a secondary one conjecturally related to GUE. This book is written not only for experts, but for graduate students

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Maths HL 2013
Past Paper 2

as well. For example, it offers a summary of basic theories on Eisenstein series and stability of lattices and arithmetic principal torsors. The second part on rank two zeta functions can be used as an introduction

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Maths HL 2013
Past Paper 2

**course, containing
a Siegel type
treatment of cusps
and fundamental
domains, and an
elementary
approach to the
trace formula
involved. Being in
the junctions of
several branches
and advanced
topics of
mathematics,**

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Maths HL 2013
Past Paper 2

***these works are
very complicated,
the results are
fundamental, and
the theory exposes
a fertile area for
further research.***

***Contents: Non-
Abelian Zeta
Functions Rank
Two Zeta
Functions
Eisenstein Periods
and Multiple L-***

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**Functions Zeta
Functions for
Reductive Groups
Algebraic, Analytic
Structures and
Rieman Hypothesis
Geometric
Structures and
Riemann
Hypothesis Five
Essays on
Arithmetic
Cohomology
Readership:**

Page 69/200

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**Graduate students
and researchers in
the theory of zeta
functions.**

**Keywords: Zeta
Function;Riemann
Hypothesis;Stabilit
y;Lattice;Fundame
ntal**

**Domain;Reductive
Group;Root
System;Eisenstein
Series;Truncation;
Arithmetic**

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Past Paper 2

***Principal
Torsor;Adelic Coho
mologyReview: Key
Features: Genuine
zeta functions for
reductive groups
over number fields
are introduced and
studied
systematically,
based on (i) fine
parabolic
structures and Lie
structures***

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Past Paper 2

involved, (ii) a new stability theory for arithmetic principal torsors over number fields, and (iii) trace formula via a geometric understanding of Arthur's analytic truncations For the first time in history, we prove a weak Riemann

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Maths HL 2013
Past Paper 2

***hypothesis for zeta
functions of
reductive groups
defined over
number fields Not
only the theory is
explained, but the
process of building
the theory is
elaborated in great
detail
Mathematics of
Energy and Climate
Change***

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Maths HL 2013
Past Paper 2

**Mathematics HL
and SL with HL
Options**

**Mathematics HL
(core) for Use with
IB Diploma**

**Programme : Exam
Preparation &
Practice Guide
International**

**Conference and
Advanced School
Planet Earth,
Portugal, March**

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Maths HI 2013
Past Paper 2
21-28, 2013

***Representations of
Nature of Science
in School Science
Textbooks***

Achieving Further

This book presents the
proceedings of the 7th
International

Conference on Frontiers
of Intelligent

Computing: Theory and
Applications (FICTA

2018), held at Duy Tan

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Maths HL 2013
Past Paper 2

University, Da Nang, Vietnam. The event brought together researchers, scientists, engineers, and practitioners to exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines. These proceedings are divided

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Maths HL 2013
Past Paper 2

into two volumes.

Covering broad areas of information and decision sciences, with papers exploring both the theoretical and practical aspects of data-intensive computing, data mining, evolutionary computation, knowledge management and networks, sensor networks, signal

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processing, wireless networks, protocols and architectures, this volume is a valuable resource for postgraduate students in various engineering disciplines.

Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more

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often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish.

Backpacker's Editors' Choice Awards, an industry honor

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recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

This book describes the way in which the human brain is supplied with blood and how the brain uses this to provide nutrients, primarily oxygen and glucose, to

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brain cells in order to maintain healthy brain function. In particular, it focuses on the quantitative nature of blood flow and metabolism. The book covers models of blood flow and metabolism and how these can be measured using a variety of imaging and non-imaging techniques. It also examines how

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cerebral blood flow is controlled in response to a wide variety of challenges and how it changes with normal physiological variation and in response to a large number of pathological conditions, including stroke and dementia. As the first substantial book for over ten years in a fast-changing field, it

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highlights how the subject has progressed in the last couple of decades. It tackles the subject in a quantitative way, underlining its importance in both technical and clinical fields. Audiences with a technical or clinical background, especially researchers and postgraduate students in biomedical engineering

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or medicine, will find
this a valuable read.

Contents: Physiology of
Blood Flow and
Metabolism Models of
Blood Flow and
Metabolism Global
Control of Blood
Flow Local Control of P
erfusion Externally-
based Measurements Inte
rnally-based
Measurements Global
Changes in Cerebral

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Blood Flow and
MetabolismLocal
Changes in Cerebral
Blood Flow and
MetabolismConclusions
Readership: Researchers
and postgraduate
students in biomedical
engineering and
medicine. Keywords: Br
ain;Haemodynamics;Va
scular;Neurovascular;A
utoregulation;Brain
imagingReview: Key

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Features: Focus on quantitative measurements and models, and their application in clinical practice Coverage aimed at both technical and clinical audience Up-to-date coverage of a very broad field, with no recent equivalent text This book connects experts in the field of child assessment to

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provide child psychiatrists with knowledge in evaluation and educational programming. The book provides a review of the latest science behind: common learning disabilities, including etiology and guidelines for assessment/diagnosis; neurodevelopmental disorders, like learning

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disabilities, ADHD; psychiatric disorders in childhood such as mood and anxiety disorders; and impact learning and development protocols. The Massachusetts General Hospital Guide to Learning Disabilities evaluates the interventions that are effective in addressing these learning challenges in the context

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of multiple factors in a way that no other current text does.

Special topics such as special education law and managing the needs of transitional age youth allow psychiatrists to support their patients and their families as they navigate the system. By offering a better understanding the learning needs of their

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patients, this text gives readers the tools to consult with families and educators regarding how to address the learning needs of their patients at school and in other settings. The Massachusetts General Hospital Guide to Learning Disabilities is a vital tool for child psychiatrists, students, assessment

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professionals, and other
professionals studying
or working with
children suffering from
learning disabilities.

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Yearbook 2013

Berkeley Problems in
Mathematics

Ebook: Child

Development: An
Introduction

Alloys and Intermetallic
Compounds

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Alzheimer's Disease and
the Fornix

Zeta Functions Of
Reductive Groups And
Their Zeros

*This volume
presents a broad
panorama of the
current status of
research of
invertebrate
animals considered
belonging to the
phylum Cnidaria,*

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such as hydra, jellyfish, sea anemone, and coral. In this book the Cnidarians are traced from the Earth's primordial oceans, to their response to the warming and acidifying oceans. Due to the role of corals in the carbon and

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calcium cycles, various aspects of cnidarian calcification are discussed. The relation of the Cnidaria with Mankind is approached, in accordance with the Editors' philosophy of bridging the artificial schism

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*between science,
arts and
Humanities.
Cnidarians'
encounters with
humans result in a
broad spectrum of
medical
emergencies that
are reviewed. The
final section of the
volume is devoted
to the role of
Hydra and Medusa*

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in mythology and art.

Cell migration plays an important role during development and in many physiological and pathological processes, from wound healing to cancer. This edited volume presents a collection of

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*contributions
meant to illustrate
the state of the art
on this topic from
an interdisciplinary
perspective.*

*Readers will find a
detailed discussion
of the properties of
individual and
collective cell
migration,
including the
associated*

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*biochemical
regulation and
important
biophysical and
biomechanical
aspects. The book
includes
information on the
latest experimental
techniques
employed to study
cell migration,
from microfluidics
to traction force*

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microscopy, as well as the latest theoretical and computational models used to interpret the experimental data. Finally, the role of cell migration in cancer and in development is also reviewed. The contents of this work should

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appeal to students and researchers in biology and biophysics who want to get up to date on the latest interdisciplinary development in this broad field of research. The chapters are written in a self-contained form and can also be used as

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individual articles. Accurate. Reliable. Engaging. These are just a few of the words used by adopters and reviewers of John Santrock's Child Development. The new topically-organised fourteenth edition continues with Santrock's highly

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*contemporary tone
and focus,
featuring over
1,000 new
citations. The
popular
Connections theme
shows students the
different aspects of
children's
development to
help them better
understand the
concepts. Used by*

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*hundreds of
thousands of
students over
thirteen editions,
Santrock's proven
learning goals
system provides a
clear roadmap to
course mastery.
This collection of
papers offers a
broad synopsis of
state-of-the-art
mathematical*

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methods used in modeling the interaction between tumors and the immune system. These papers were presented at the four-day workshop on Mathematical Models of Tumor-Immune System Dynamics held in Sydney, Australia

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*from January 7th
to January 10th,
2013. The
workshop brought
together applied
mathematicians,
biologists, and
clinicians actively
working in the
field of cancer
immunology to
share their current
research and to
increase*

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Past Paper 2

awareness of the innovative mathematical tools that are applicable to the growing field of cancer immunology. Recent progress in cancer immunology and advances in immunotherapy suggest that the immune system

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plays a fundamental role in host defense against tumors and could be utilized to prevent or cure cancer. Although theoretical and experimental studies of tumor-immune system dynamics have a long history, there are still many

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unanswered

questions about the mechanisms that govern the interaction between the immune system and a growing tumor. The multidimensional nature of these complex interactions requires a cross-

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disciplinary approach to capture more realistic dynamics of the essential biology. The papers presented in this volume explore these issues and the results will be of interest to graduate students and researchers in

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*a variety of fields
within
mathematical and
biological sciences.
Frontiers in
Intelligent
Computing: Theory
and Applications
Mathematics
Higher Level for
the IB Diploma
Option Topic 9
Calculus*

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*Mathematical
Studies Standard
Level for the IB
Diploma*

*Coursebook
The world of
Medusa and her
sisters*

*Advances in the
Anthropological
Theory of the
Didactic*

A new series of
Exam Preparation

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guides for the IB
Diploma
Mathematics HL
and SL and
Mathematical
Studies. This exam
preparation guide
for the core content
of the IB Diploma
Mathematics Higher
Level course breaks
the course down
into chapters that

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summarise material and present revision questions by exam question type, so that revision can be highly focused to make best use of students' time.

Students can stretch themselves to achieve their best with 'going for the top' questions for

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those who want to achieve the highest results. Worked solutions for all the mixed and 'going for the top' questions are included, plus exam hints throughout. Guides for Mathematics Standard Level and Mathematical Studies are also

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available.

Bringing together international research on nature of science (NOS) representations in science textbooks, the unique analyses presented in this volume provides a global perspective on NOS from elementary to

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college level and discusses the practical implications in various regions across the globe. Contributing authors highlight the similarities and differences in NOS representations and provide recommendations

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for future science textbooks. This comprehensive analysis is a definitive reference work for the field of science education. Why is there a need to rethink madrasah education? What is the positioning of Muslims in contemporary

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society, and how
are they prepared?
What is the role of
the ulama in the
reform process?
This book explores
these questions
from the perspective
of madrasah
education and
analyses curricular
and pedagogic
innovations in

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Islamic faith-based education in response to the changing place of Islam in a globalised world. It argues for the need for madrasahs to reconceptualise education for Muslim children. Specifically, it explores the

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problems and challenges that come with new knowledge, biotechnological advancement and societal transformation facing Muslims, and to identify the processes towards reformation that impinge on the

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philosophies (both Western and Islamic), religious traditions and spirituality, learning principles, curriculum, and pedagogy. This book offers glimpses into the reform process at work through contemporary

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examples in
selected countries.
An ideal reference
guide to introducing
the IB Diploma in
your school.

Mathematical
Models of Tumor-
Immune System
Dynamics
Nonlinear Analysis,
Geometry and
Applications

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Assessing Learning
Needs of Children
and Adolescents

Psychology:
Themes and
Variations

Introducing the IB
Diploma

Programme

Hemodynamic

Monitoring - E-Book

There is increasing

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interest in understanding the interplay of emotional and cognitive processes. The objective of the Research Topic was to provide an interdisciplinary survey of cutting-edge

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neuroscientific research on the interaction and integration of emotion and cognition in the brain. The following original empirical reports, commentaries and theoretical reviews provide a

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comprehensive
survey on recent
advances in
understanding
how emotional
and cognitive
processes interact,
how they are
integrated in the
brain, and what
their implications
for understanding

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the mind and its disorders are.

These works encompasses a broad spectrum of populations and showcases a wide variety of paradigms, measures, analytic strategies, and conceptual

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approaches. The aim of the Topic was to begin to address several key questions about the interplay of cognitive and emotional processes in the brain, including: what is the impact

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of emotional states, anxiety and stress on various cognitive functions? How are emotion and cognition integrated in the brain? Do individual differences in affective

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dimensions of
temperament and
personality alter
cognitive
performance, and
how is this
realized in the
brain? Are there
individual
differences that
increase
vulnerability to

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the impact of
affect on
cognition—who is
vulnerable, and
who resilient?
How plastic is the
interplay of
cognition and
emotion? Taken
together, these
works
demonstrate that

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emotion and cognition are deeply interwoven in the fabric of the brain, suggesting that widely held beliefs about the key constituents of ‘ the emotional brain ’ and ‘ the cognitive brain ’

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are fundamentally
flawed.

Developing a
deeper
understanding of
the emotional-
cognitive brain is
important, not
just for
understanding the
mind but also for
elucidating the

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root causes of its
many debilitating
disorders.

An evidence-
based guide to
hemodynamic
monitoring
procedures and
patient care,
Hemodynamic
Monitoring:
Evolving

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Technologies & Clinical Practice describes invasive, non-invasive, and minimally invasive techniques in monitoring blood pressure and oxygen levels within the circulatory system. It provides a clear,

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illustrated

discussion of the
anatomy and
physiology related
to hemodynamics,
explains the
technologies
involved in each
measurement,
and includes quick-
reference tables of
normal and

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abnormal values.

Written by
cardiovascular
nursing expert
Mary E. Lough,
Hemodynamic
Monitoring is a
detailed,
comprehensive
text designed for
critical care nurses
and respiratory

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therapists. Case Studies in each clinical chapter include a patient scenario with assessment details, allowing you to envision real-life patient care and prepare for adverse outcomes or

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complications.

Coverage of
patient safety
includes a
discussion of
important
measures that will
help you provide
safe and effective
patient-centered
care. UNIQUE!

Coverage of

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patient comfort
includes a
discussion of
methods to
increase patient
comfort during
invasive
procedures.

Clinical Reasoning
Pearls provide
practical advice
from experts and

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describe how to implement a procedure or improve patient care. A table of Important Values and Formulas is located inside the back cover for quick and easy reference.

Do you have

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students who are far ahead of their peers in math? Are you a teacher who differentiates for those students by giving them additional topics, but without knowing what topics they have already covered

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over the past
years and without
a plan for the
topics they should
cover in the next
years? Are you a
head of
department, who
wants to
streamline
differentiation
throughout your

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math department
to ensure talented
students have a
more uniform
experience as they
move from
teacher to teacher
and have a goal
they are working
towards year after
year? Are you a
principal who

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wants to improve
the results of your
students in HL
Math and to have
students from
your school start
succeeding in HL
Further Math? If
so, this book
describes a
program to
prepare IB Middle

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Years Program
(MYP) students to
enter the Diploma
Program (DP)
taking HL Further
Math as their only
math course. The
program is
modeled on the
ATYP program
from Kalamazoo
MI started by

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Carol McCarthy.
This book collects approximately nine hundred problems that have appeared on the preliminary exams in Berkeley over the last twenty years. It is an invaluable source of

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problems and solutions. Readers who work through this book will develop problem solving skills in such areas as real analysis, multivariable calculus, differential equations, metric

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spaces, complex
analysis, algebra,
and linear algebra.

Genomics,

Circuits, and

Pathways in

Clinical

Neuropsychiatry

Cerebral Blood

Flow And

Metabolism: A

Quantitative

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Approach

Mathematics

Higher Level for
the IB Diploma

Option Topic 7

Statistics and

Probability

The SAGE

Handbook of

Research in

International

Education

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The neurobiology
of emotion-
cognition
interactions

The
Massachusetts
General Hospital
Guide to Learning
Disabilities
"Neutrosophic
Sets and
Systems" has

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been created
for
publications
on advanced
studies in
neutrosophy,
neutrosophic
set,
neutrosophic
logic,
neutrosophic
probability,

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neutrosophic
statistics
that started
in 1995 and
their
applications
in any field,
such as the
neutrosophic
structures
developed in
algebra,

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geometry,
topology, etc.

Ebook: The
Science of
Psychology: An
Appreciative
View

The focus of
this volume is
research
carried out as
part of the

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program

Mathematics of
Planet Earth,
which provides
a platform to
showcase the
essential role
of mathematics
in addressing
planetary
problems and
creating a

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context for
mathematicians
and applied
scientists to
foster
mathematical
and interdisci-
plinary
developments
that will be
necessary to
tackle a

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myriad of
issues and
meet future
global
challenges.
Earth is a
planet with
dynamic
processes in
its mantle,
oceans and
atmosphere

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creating
climate,
causing
natural
disasters and
influencing
fundamental
aspects of
life and life-
supporting
systems. In
addition to

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these natural processes, human activity has increased to the point where it influences the global climate, impacts the ability of the planet to feed

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itself and
threatens the
stability of
these systems.
Issues such as
climate
change, sustain-
ability, man-
made
disasters,
control of
diseases and

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epidemics,
management of
resources,
risk analysis
and global
integration
have come to
the fore.

Written by
specialists in
several fields
of mathematics

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and applied
sciences, this
book presents
the
proceedings of
the
International
Conference and
Advanced
School Planet
Earth,
Mathematics of

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Energy and
Climate Change
held in
Lisbon,
Portugal, in
March 2013,
which was
organized by
the
International
Center of
Mathematics

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(CIM) as a
partner
institution of
the
international
program
Mathematics of
Planet Earth
2013. The book
presents the
state of the
art in

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advanced
research and
ultimate
techniques in
modeling
natural,
economical and
social
phenomena. It
constitutes a
tool and a
framework for

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researchers
and graduate
students, both
in mathematics
and applied
sciences.

This book
focuses on the
role of
modeling in
the design of
alloys and

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intermetallic
compounds. It
includes an
introduction
to the most
important and
most used
modeling
techniques,
such as
CALPHAD and ab-
initio

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methods, as well as a section devoted to the latest developments in applications of alloys. The book emphasizes the correlation

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between
modeling and
technological
developments
while
discussing
topics such as
wettability of
Ultra High
Temperature
Ceramics by
metals, active

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brazing of
diamonds to
metals in
cutting tools,
surface issues
in medicine,
novel Fe-based
superconductor
s, metallic
glasses, high
entropy
alloys, and

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thermoelectric
materials.

A Global
Perspective
Backpacker
From Modeling
to Engineering
Mathematics -
Analysis and
Approaches
Rethinking
Madrasah

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Education in a
Globalised
World
Mathematics
for the
International
Student

This comprehensive
and concise text is
ideal for use with
the International
Baccalaureate
Mathematics HL &

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SL courses in a clear and easy to use format. The author has developed this text after many years of teaching and examining IB Mathematics. This 2006-13 Edition of Mathematics HL & SL has been written specifically for the International

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Baccalaureate
Syllabuses for
students taking
exams until
November 2013.
Students taking
exams in May 2014
or later should buy
the 2012-19 Edition
instead of this one.
The HL Options of
Statistics and
Probability, Set,
Relations and

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Groups, and Series and Differential Equations are included. In each chapter the information relative to the topic is discussed and several examples providing various approaches to the solutions are given. The exercises provided with each

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section have been carefully graded from the relatively easy to the more difficult. Answers to all odd-numbered questions and some even-numbered ones are provided. The required outcomes are featured at the end of each chapter.

The highly-

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respected book of reference of sought-after Independent Schools in membership of the Independent Schools Council's Associations: HMC, GSA, The Society of Heads, IAPS, ISA and COBIS.

Featuring a wealth of digital content, this concept-based

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Print and Enhanced
Online Course Book
Pack has been
developed in
cooperation with the
IB to provide the
most
comprehensive
support for the new
DP Mathematics:
analysis and
approaches HL
syllabus, for first
teaching in

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September 2019.

This completely new title is written to specifically cover the new IB Diploma Mathematical Studies syllabus.

The significance of mathematics for practical applications is a prominent theme throughout this coursebook,

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supported with Theory of Knowledge, internationalism and application links to encourage an appreciation of the broader contexts of mathematics.

Mathematical modelling is also a key feature. GDC tips are integrated throughout, with a

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dedicated GDC chapter for those needing more support. Exam hints and IB exam-style questions are provided within each chapter; sample exam papers (online) can be tackled in exam-style conditions for further exam preparation.

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Guidance and support for the internal assessment is also available, providing advice on good practice when writing the project.

Ebook: The Science of Psychology: An Appreciative View
Proceedings of the First NLAGA-BIRS Symposium, Dakar, Senegal, June

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24-28, 2019

Credential Market
Evolving
Technologies and
Clinical Practice
Spatial Dynamics
and Pattern
Formation in
Biological
Populations

The book provides
an introduction to
deterministic (and

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some stochastic)
modeling of
spatiotemporal
phenomena in
ecology,
epidemiology, and
neural systems. A
survey of the
classical models in
the fields with up
to date
applications is

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given. The book begins with detailed description of how spatial dynamics/diffusive processes influence the dynamics of biological populations. These processes play a

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key role in understanding the outbreak and spread of pandemics which help us in designing the control strategies from the public health perspective. A brief discussion on the functional

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mechanism of the
brain (single
neuron models
and network level)
with classical
models of
neuronal dynamics
in space and time
is given. Relevant
phenomena and
existing modeling
approaches in

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ecology,
epidemiology and
neuroscience are
introduced, which
provide examples
of pattern
formation in these
models. The
analysis of
patterns enables
us to study the
dynamics of

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macroscopic and
microscopic
behaviour of
underlying
systems and
travelling wave
type patterns
observed in
dispersive
systems. Moving
on to virus
dynamics, authors

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present a detailed analysis of different types models of infectious diseases including two models for influenza, five models for Ebola virus and seven models for Zika virus with diffusion

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and time delay. A Chapter is devoted for the study of Brain Dynamics (Neural systems in space and time). Significant advances made in modeling the reaction-diffusion systems are presented and

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spatiotemporal
patterning in the
systems is
reviewed.

Development of
appropriate
mathematical
models and
detailed analysis
(such as linear
stability, weakly
nonlinear analysis,

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bifurcation

analysis, control theory, numerical simulation) are presented. Key Features Covers the fundamental concepts and mathematical skills required to analyse reaction-diffusion models

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for biological populations. Concepts are introduced in such a way that readers with a basic knowledge of differential equations and numerical methods can understand the analysis. The

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results are also illustrated with figures. Focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics, Virus and Brain

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dynamics. Covers wide range of models using spatial and non-spatial approaches.

Covers single, two and multispecies reaction-diffusion models from ecology and models from bio-

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chemistry. Models are analysed for stability of equilibrium points, Turing instability, Hopf bifurcation and pattern formations. Uses Mathematica for problem solving and MATLAB for pattern formations.

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Contains solved
Examples and
Problems in
Exercises. The
Book is suitable for
advanced
undergraduate,
graduate and
research students.
For those who are
working in the
above areas, it

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provides

information from most of the recent works. The text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses.

Ebook: Life-Span

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Development