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**Dse Maths
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***With an emphasis
on academic
skills and content
knowledge,
Longman
Mathematics
prepares English
language***

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***learners and
struggling
readers in grades
6-12 for success
in standards-
based classes.
Students develop
strategies for
understanding
the language of
mathematics.
Students develop
an understanding***

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***of how to read,
interpret, and
respond to math
word problems.
Students explore
basic
mathematical
ideas, including
numbers,
fractions, ratios
and percents,
and an
introduction to***

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***geometry and
measurements.
Political Crises,
Social Conflict
and Economic
Development is a
rare attempt to
undertake
comparative
political economy
analysis of the
Andean region
and thus***

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***represents a
welcome
contribution. . . It
is clearly written
and will engage
scholars
interested in
Latin America
from a wide
range of
disciplines.***

***Jonathan di John,
Journal of***

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Agrarian Change

This collection of essays on the political economy of the Andean region goes to the heart of the struggle these smaller economies face in completing crucial reforms and achieving

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***higher growth.
Andrés Solimano
has brought
together the best
and the brightest
talent from each
country, the
result being the
most compelling
analysis ever of
how enclave
development and
a historical***

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***dependence on
primary exports
renders these
countries
distinctly
Andean. As the
essays argue, the
political solutions
and economic
remedies must
address this
phenomenon,
rather than***

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mimicking those strategies of the larger emerging market countries in the region.

***Carol Wise,
University of
Southern
California, US The
contributors to
this authoritative
volume analyze
the impact of***

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***political crises
and social
conflict on
economic
performance in
the Andean
region of Latin
America. The
blend of theory
and case studies
is also relevant
for
understanding***

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other complex societies in the developing world and transition economies. The book provides illuminating insights on how to understand, and survive, the complicated interactions between volatile

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politics, unstable democracies, violence, social inequality and uneven economic performance. Recent political economy theories are combined with valuable quantitative and qualitative information on

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***presidential
crises,
breakdowns of
democracy,
constitutional
reforms, quality
of institutions,
and social
inequality and
exclusion to
understand
actual country
realities. Part I***

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***provides the
conceptual
framework and a
regional
perspective of
the book. Part II
contains five
political economy
country studies
Bolivia, Colombia,
Ecuador, Peru
and Venezuela
written by***

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***leading scholars
in the field and
former senior
policymakers,
including a
former President.
Together, the
chapters
highlight the
detrimental
effects of
political
instability and***

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social conflict on economic growth and stability, as well as the feedback effects from poor economic performance on political instability and institutional fragility. The country studies

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warn that narrow economic reforms that do not pay adequate attention to politics, institutions and social structures are bound to fail in bringing lasting prosperity and stability to complex

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societies.

***Examining new
and rich
information on
episodes of
political turmoil,
military
interventions,
forced
presidential
resignations,
constitutional
reforms and***

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***social uprisings,
this book will be
required reading
for all those
interested in the
interface of
politics and
economic
development.
This book
discusses the
latest progresses
and***

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***developments on
complex systems
research and
intends to give
an exposure to
prospective
readers about the
theoretical and
practical aspects
of mathematical
modelling,
numerical
simulation and***

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***agent-based
modelling
frameworks. The
main purpose of
this book is to
emphasize a
unified approach
to complex
systems analysis,
which goes
beyond to
examine
complicated***

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phenomena of numerous real-life systems; this is done by investigating a huge number of components that interact with each other at different (microscopic and macroscopic) scales; new

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insights and emergent collective behaviours can evolve from the interactions between individual components and also with their environments. These tools and concepts permit

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***us to better
understand the
patterns of
various real-life
systems and help
us to
comprehend the
mechanisms
behind which
distinct factors
shaping some
complex systems
phenomena being***

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influenced. This book is published in conjunction with the International Workshop on Complex Systems Modelling & Simulation 2019 (CoSMoS 2019): IoT & Big Data Integration. This international

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**event was held at
the Universiti
Sains Malaysia
Main Campus,
Penang,
Malaysia, from 8
to 11 April 2019.
This book
appeals to
readers
interested in
complex systems
research and**

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other related areas such as mathematical modelling, numerical simulation and agent-based modelling frameworks. . The book represents a collection of papers presented

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at VI

***International
Symposium
"Biogenic -
abiogenic
interactions in
natural and
anthropogenic
systems" that
was held on
24-27 September
2018 in Saint
Petersburg***

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(Russia). Papers in this book cover a wide range of topics connecting with interactions between biogenic and abiogenic components in lithosphere, biosphere and technosphere. The main regarding topics

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***are following:
methods for
studying the
interactions
between biogenic
and abiogenic
components;
geochemistry of
biogenic-
abiogenic
systems;
biomineralization
and nature-like***

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***materials and
technologies;
medical geology;
biomineralogy
and organic
mineralogy;
biomineral
interactions in
soil;
biodeterioration
of natural and
artificial
materials;***

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***biomineral
interactions in
extreme
environment.
The Anomalous
Magnetic Moment
of the Muon
Nutrigenetics
Political Crises,
Social Conflict
and Economic
Development
DSE Maths CP P2***

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by topic

2012-2018

Standard

Handbook of

Machine Design

Machine

Learning,

Advances in

Computing,

Renewable

Energy and

Communication

The latest ideas in

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**machine analysis
and design have led
to a major revision
of the field's
leading handbook.
New chapters cover
ergonomics, safety,
and computer-
aided design, with
revised information
on numerical
methods, belt**

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**devices, statistics,
standards, and
codes and
regulations. Key
features include:
*new material on
ergonomics, safety,
and computer-
aided design;
*practical
reference data that
helps machines**

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**designers solve
common
problems--with a
minimum of
theory. *current
CAS/CAM
applications, other
machine
computational aids,
and robotic
applications in
machine design.**

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**This definitive
machine design
handbook for
product designers,
project engineers,
design engineers,
and manufacturing
engineers covers
every aspect of
machine
construction and
operations.**

Page 37/199

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Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling;

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**belt drive; gears;
shafting; vibration
and control;
linkage; and
corrosion.**

**This book, written
by a pioneer in
surface physics and
thin film research
and the inventor of
Low Energy
Electron**

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**Microscopy
(LEEM), Spin-
Polarized Low
Energy Electron
Microscopy
(SPLEEM) and
Spectroscopic
Photo Emission
and Low Energy
Electron
Microscopy
(SPELEEM),**

Page 40/199

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covers these and other techniques for the imaging of surfaces with low energy (slow) electrons. These techniques also include

Photoemission

Electron

Microscopy

(PEEM), X-ray

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**Photoemission
Electron
Microscopy
(XPEEM), and
their combination
with
microdiffraction
and
microspectroscopy,
all of which use
cathode lenses and
slow electrons. Of**

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**particular interest
are the
fundamentals and
applications of
LEEM, PEEM, and
XPEEM because of
their widespread
use. Numerous
illustrations
illuminate the
fundamental
aspects of the**

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**electron optics, the
experimental setup,
and particularly
the application
results with these
instruments.**

Surface

Microscopy with

Low Energy

**Electrons will give
the reader a unified
picture of the**

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2014.

**imaging,
diffraction, and
spectroscopy
methods that are
possible using low
energy electron
microscopes.**

**The purpose of this
book is to gain a
better
understanding of
the multitude of**

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factors that determine longer life and improved quality of life in the years a person is alive. While the emphasis is primarily on the social and behavioral determinants that have an effect on

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the health and well-being of individuals, this publication also addresses quality of life factors and determinants more broadly. Each chapter in this book considers an area of investigation and

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**ends with
suggestions for
future research and
implications of
current research
for policy and
practice. The
introductory
chapter
summarizes the
state of Americans'
health and well-**

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**being in
comparison to our
international peers
and presents
background
information
concerning the
limitations of
current approaches
to improving health
and well-being.**

Following the

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introduction, there are 21 chapters that examine the effects of various behavioral risk factors on population health, identify trends in life expectancy and quality of life, and suggest avenues for research in the

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**behavioral and
social science
arenas to address
problems affecting
the U.S. population
and populations in
other developed
and developing
countries around
the world.**

**Undergraduate and
graduate students**

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**pursuing
coursework in
health statistics,
health population
demographics,
behavioral and
social science, and
health policy may
be interested in this
content.**

**Additionally,
policymakers,**

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**legislators, health
educators, and
scientific
organizations
around the world
may also have an
interest in this
resource.**

????????????????

?? HKDSE

Economic ??

Definition? ???

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st?list=PLzDe9mO
i1K8odYV54ZMTk
j2m7BWvMU9pB
**Processes and
Phenomena on the
Boundary Between
Biogenic and
Abiogenic Nature
Proceedings of
MARC 2020
HKDSE Maths
(M2) [?][?] (M2) 10[?]**

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Past Paper

Solution (2021)

**Elements of
Information**

Theory

From Solution

**Precursors to Solid
Materials**

**Thermodynamics,
Diffusion and the
Kirkendall Effect
in Solids**

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Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new

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applications to solid state physics, and consolidated treatment of time-dependent potentials.

This book presents innovations in teaching and learning science, novel approaches to science curriculum, cultural and

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contextual factors in promoting science education and improving the standard and achievement of students in East Asian countries. The authors in this book discuss education reform and science curriculum changes and promotion of

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science and STEM
education, parental
roles and
involvement in
children's education,
teacher preparation
and professional
development and
research in science
education in the
context of
international
benchmarking tests

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to measure the
knowledge of
mathematics and
science such as the
Trends in
Mathematics and
Science Study
(TIMSS) and
achievement in
science,
mathematics and
reading like
Programme for

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International
Student
Assessment (PISA).
Among the high
achieving countries,
the performance of
the students in East
Asian countries
such as Singapore,
Taiwan, Korea,
Japan, Hong Kong
and China
(Shanghai) are

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notable. This book investigates the reasons why students from East Asian countries consistently claim the top places in each and every cycle of those study. It brings together prominent science educators and researchers from

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East Asia to share their experience and findings, reflection and vision on emerging trends, pedagogical innovations and research-informed practices in science education in the region. It provides insights into effective educational

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strategies and development of science education to international readers.

In the last decade, numerous studies have demonstrated the existence of alternative pathways to nucleation and crystallisation that oppose the classical

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view. Such proposed scenarios include multistage reactions proceeding via various precursor species and/or intermediate phases. The aim of this book is to review and discuss these recent advances in our

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understanding of the
early stages of
mineralisation
through a series of
contributions that
address both
experimental and
theoretical studies
about the formation
and nature of initial
precursor species
(e.g., prenucleation
clusters, dense

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liquid phases,
amorphous
nanoparticles, etc.)
as well as their
transformations
leading to the stable
mineral phase.
Several chapters
are devoted to
cutting-edge
analytical
techniques used for
investigating the

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above processes in situ, in real time and at conditions relevant to both natural and industrial processes. At the end of the book, the editors summarize the key questions that still need to be addressed in order to establish a

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complete picture of
the nucleation and
growth processes
involved during the
formation of
minerals

Geomatics is a
neologism, the use
of which is
becoming
increasingly
widespread, even if
it is not still

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universally

accepted. It includes several disciplines and techniques for the study of the Earth's surface and its environments, and computer science plays a decisive role. A more meaningful and appropriate expression is G-

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spatial Information
or GeoInformation.
Geo-spatial
Information embeds
topography in its
more modern forms
(measurements with
electronic
instrumentation,
sophisticated
techniques of data
analysis and
network

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compensation,
global satellite
positioning
techniques, laser
scanning, etc.),
analytical and digital
photogrammetry,
satellite and
airborne remote
sensing, numerical
cartography,
geographical
information

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systems, decision support systems, WebGIS, etc. These specialized elds are intimately interrelated in terms of both the basic science and the results pursued: rigid separation does not allow us to discover several common aspects

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and the fundamental importance assumed in a search for solutions in the complex survey context. The objective pursued by Mario A. Gomarasca, one that is only apparently modest, is to publish an integrated text on

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the surveying theme, containing simple and comprehensible concepts relevant to experts in Geo-spatial Information and/or specifically in one of the disciplines that compose it. At the same time, the book is rigorous and

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synthetic, describing
with precision the
main instruments
and methods
connected to the
multiple techniques
available today.
Foundations of
Quantum Theory

Copenhagen,
Denmark, 25 - 28
August 2014
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Embedded System
Design

Natural Resource
and Environmental
Economics

HKDSE Maths 數學

11年 Past Paper

Solution (最新 2022)

These proceedings
comprise invited and
contributed papers
presented at the 14th
International

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Conference on X-Ray Lasers (ICXRL 2014). This conference is part of a continuing series dedicated to recent developments and applications of x-ray lasers and other coherent x-ray sources with attention to supporting technologies and instrumentation. New results in the

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generation of intense, coherent x-rays and progress toward practical devices and their applications in numerous fields are reported. Areas of research in plasma-based x-ray lasers, 4th generation accelerator-based sources and higher harmonic generation, and other x-ray

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generation schemes are covered. The scope of ICXRL 2014 included, but was not limited to: Laser-pumped X-ray lasers Discharge excitation and other X-ray laser pumping methods Injection/seeding of X-ray amplifiers New lasing transitions and novel X-ray laser schemes High

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Harmonic sources-
Free-electron laser
generation in the XUV
and X-ray range
Novel schemes for
coherent XUV and X-
ray generation XUV
and X-ray optics and
metrology-Driving
laser technology
Theory and modeling
of X-ray gain medium
and beam
characteristics

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Applications of high
brightness and
ultrashort X-ray
sources

This engaging
introduction to
random processes
provides students with
the critical tools
needed to design and
evaluate engineering
systems that must
operate reliably in
uncertain

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environments. A brief review of probability theory and real analysis of deterministic functions sets the stage for understanding random processes, whilst the underlying measure theoretic notions are explained in an intuitive, straightforward style. Students will learn to

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manage the complexity of randomness through the use of simple classes of random processes, statistical means and correlations, asymptotic analysis, sampling, and effective algorithms. Key topics covered include:

- Calculus of random processes in

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linear systems •
Kalman and Wiener
filtering • Hidden
Markov models for
statistical inference •
The estimation
maximization (EM)
algorithm • An
introduction to
martingales and
concentration
inequalities.
Understanding of the
key concepts is

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reinforced through over 100 worked examples and 300 thoroughly tested homework problems (half of which are solved in detail at the end of the book). In the last ten years, there has been increasing interest and activity in the general area of partially linear

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regression smoothing in statistics. Many methods and techniques have been proposed and studied. This monograph hopes to bring an up-to-date presentation of the state of the art of partially linear regression techniques. The emphasis is on methodologies rather

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than on the theory, with a particular focus on applications of partially linear regression techniques to various statistical problems. These problems include least squares regression, asymptotically efficient estimation, bootstrap resampling, censored data

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analysis, linear measurement error models, nonlinear measurement models, nonlinear and nonparametric time series models.

During the last few years cavity-optomechanics has emerged as a new field of research. This highly interdisciplinary field studies the

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interaction between micro and nano mechanical systems and light. Possible applications range from novel high-bandwidth mechanical sensing devices through the generation of squeezed optical or mechanical states to even tests of quantum theory itself. This is

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one of the first books in this relatively young field. It is aimed at scientists, engineers and students who want to obtain a concise introduction to the state of the art in the field of cavity optomechanics. It is valuable to researchers in nano science, quantum optics, quantum

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information,
gravitational wave
detection and other
cutting edge fields.
Possible applications
include biological
sensing, frequency
comb applications,
silicon photonics etc.
The technical content
will be accessible to
those who have
familiarity with basic
undergraduate

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physics.

Surface Microscopy
with Low Energy
Electrons

Longman Math

New Perspectives on
Mineral Nucleation
and Growth

The Political Economy
of the Andean Region

Biostatistics

Smart Grids and Their
Communication

Systems

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This Book of
Abstracts is the main
publication of the 65th
Annual Meeting of the
European Federation
for Animal Science
2014 in Copenhagen,
Denmark. It contains
abstracts of the invited
papers and contributed
presentations. The
meeting addressed
subjects relating to

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science and
innovation. Important
problems were also
discussed during the
sessions of EAAP's
nine Commissions:
Animal Genetics,
Animal Nutrition,
Animal Management
and Health, Animal
Physiology, Cattle
Production, Sheep and
Goat Production, Pig

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Production, Horse
Production and
Livestock Farming
Systems.

In this book basic and
some more advanced
thermodynamics and
phase as well as
stability diagrams
relevant for diffusion
studies are introduced.
Following, Fick's
laws of diffusion,

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atomic mechanisms, interdiffusion, intrinsic diffusion, tracer diffusion and the Kirkendall effect are discussed. Short circuit diffusion is explained in detail with an emphasis on grain boundary diffusion. Recent advances in the area of interdiffusion will

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be introduced.

Interdiffusion in multi-component systems is also explained. Many practical examples will be given, such that researches working in this area can learn the practical evaluation of various diffusion parameters from experimental results. Large number

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of illustrations and experimental results are used to explain the subject. This book will be appealing for students, academicians, engineers and researchers in academic institutions, industry research and development laboratories.

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“It is now time to break down the ideology of exceptionalism in the United States and other Anglo-American nations if we are to develop reforms that will truly inspire our teachers to improve learning for all our students—especially those who struggle the

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most. In that essential quest, Pasi Sahlberg is undoubtedly one of the very best teachers of all.” —From the Foreword by Andy Hargreaves, Lynch School of Education, Boston College
Finnish Lessons is a first-hand, comprehensive account of how

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Finland built a world-class education system during the past three decades. The author traces the evolution of education policies in Finland and highlights how they differ from the United States and other industrialized countries. He shows how rather than relying on

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competition, choice,
and external testing of
students, education
reforms in Finland
focus on
professionalizing
teachers' work,
developing
instructional
leadership in schools,
and enhancing trust in
teachers and schools.

This book details the

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complexity of
educational change
and encourages
educators and
policymakers to
develop effective
solutions for their own
districts and schools.

Fundamentals of
Corporate Finance, by
Richard A. Brealey,
Stewart C. Myers and
Alan J. Marcus, has

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been applauded for its modern approach and interesting examples. Professors praise the authors' well-organized and thoughtful writing style and their clear exposition of what many students consider difficult material. The authors accomplish this

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without sacrificing an up-to-date, technically correct treatment of core topic areas. Since this author team is known for their outstanding research, teaching efforts, and market-leading finance textbooks, it's no surprise that they have created an innovative and market-

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driven revision that is more student friendly than ever. Every chapter has been reviewed and revised to reflect the current environment in corporate finance.

Book of Abstracts of
the 65th Annual
Meeting of the
European Association
for Animal Production

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MATHS CORE

Basics of Geomatics
Simulation of
Complex Systems
Cavity Optomechanics
Pedagogical
Innovations and
Research-informed
Practices

***This book
studies the
foundations of***

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***quantum theory
through its
relationship to
classical
physics. This
idea goes back
to the
Copenhagen
Interpretation
(in the original
version due to
Bohr and***

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***Heisenberg),
which the
author relates to
the
mathematical
formalism of
operator
algebras
originally
created by von
Neumann. The
book therefore***

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***includes
comprehensive
appendices on
functional
analysis and
 C^* -algebras, as
well as a briefer
one on logic,
category theory,
and topos
theory. Matters
of foundational***

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***as well as
mathematical
interest that are
covered in detail
include
symmetry (and
its
"spontaneous"
breaking), the
measurement
problem, the
Kochen-***

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***Specker, Free
Will, and Bell
Theorems, the
Kadison-Singer
conjecture,
quantization, in
distinguishable
particles, the
quantum theory
of large
systems, and
quantum logic,***

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***the latter in
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selection charts
(a new
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information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing with personal computers, or PCs. The trend

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toward

*miniaturization
continues and in the
future the majority
of information
processing systems
will be small mobile
computers, many of
which will be
embedded into
larger products and
interfaced to the*

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physical

environment.

*Hence, these kinds
of systems are called
embedded systems.*

*Embedded systems
together with their
physical*

*environment are
called cyber-*

physical systems.

Examples include

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*systems such as
transportation and
fabrication
equipment. It is
expected that the
total market volume
of embedded
systems will be
significantly larger
than that of
traditional
information*

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*processing systems
such as PCs and
mainframes.*

*Embedded systems
share a number of
common
characteristics. For
example, they must
be dependable,
efficient, meet real-
time constraints and
require customized*

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*user interfaces
(instead of generic
keyboard and mouse
interfaces).*

*Therefore, it makes
sense to consider
common principles
of embedded system
design. Embedded
System Design
starts with an
introduction into the*

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area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system

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*techniques for
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techniques for
embedded systems,*

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and as a source
which provides*

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*This book deals with
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*fundamental and
essential techniques
to simulate complex
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diseases, from optimization using ant colonies to the simulation of the Game of Life. Several natural systems found in physics, biology and engineering can be considered complex systems, because their behaviour is

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not easily

*predictable and is
the result of*

complex

*interactions among
their constituents.*

Examples of

complex systems are

a cell with its

organelles, an

organ, the human

brain, social

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*networks,
transportation and
communication
systems, the stock
market, ecosystems,
systems with prey
and predators, a
swarm of bees.*

*There are several
specialized books
focusing on
different simulation*

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