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foundation for success in the Cambridge Checkpoint tests, and ensure your students get the challenge and extension they need to achieve their best in the Cambridge IGCSE. This course matches the new framework and will rigorously prepare students for the strongest achievement at Checkpoint level and beyond.

Microsoft Office 2010: Advanced Gary Shelly 2010-12-17 MICROSOFT OFFICE 2010: ADVANCED provides a project-based, step-by-step approach to teaching the Office 2010 applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Numerical Methods for PDEs Daniele Antonio Di Pietro 2018-10-12 This volume gathers

contributions from participants of the Introductory School and the IHP thematic quarter on Numerical Methods for PDE, held in 2016 in Cargese (Corsica) and Paris, providing an opportunity to disseminate the latest results and envisage fresh challenges in traditional and new application fields. Numerical analysis applied to the approximate solution of PDEs is a key discipline in applied mathematics, and over the last few years, several new paradigms have appeared, leading to entire new families of discretization methods and solution algorithms. This book is intended for researchers in the field.

Complete Mathematics for Cambridge Secondary 1 Deborah Barton 2016-03-03 Build a firm foundation for success

in the Cambridge Checkpoint tests, and ensure your students get the challenge and extension they need to achieve their best in the Cambridge IGCSE. This course matches the framework and will rigorously prepare students for the strongest achievement at Checkpoint level and beyond.

Global Atmospheric Change and its Impact on Regional Air Quality Ian Barnes 2002-11-30 The NATO ARW in Irkutsk was an excellent occasion for the coming together of Eastern and Western scientists who are involved in tropospheric science; the workshop has greatly contributed to the scientific and social understanding among the participants from the many different countries. Many new personal contacts were made which will help to strengthen future

collaborations. In particular, the Lake Baikal area and the Limnological Institute offer splendid opportunities for environmental research which, in part, is already on going. For most participants it was the first time to see the impressive nature of the Lake Baikal region. Hopefully, there will be a chance for a follow-up event in Siberia where researchers from the East and West can again meet and engage in fruitful scientific dialogue. The book contains extended abstracts of the lectures and the poster presentations presented at the NATO ARW "Global Atmospheric Change and its Impact on Regional Air Quality" Irkutsk, Lake Baikal, Russian Federation, August 21-27, 2001. The ARW was composed of 22 oral presentations by key

lecturers and 6 additional shorter oral presentations from participants. In a special poster session the 36 poster contributions were presented and discussed. Unfortunately not all contributors submitted extended abstracts, however, to compensate two contributions have been added from 2 participants who were originally invited but were unable to attend.

Deregulation and Efficiency of Indian Banks

Sunil Kumar
2013-10-23 □ The goal of this book is to assess the efficacy of India's financial deregulation programme by analyzing the developments in cost efficiency and total factor productivity growth across different ownership types and size classes in the banking sector over the post-deregulation years. The work also gauges the

impact of inclusion or exclusion of a proxy for non-traditional activities on the cost efficiency estimates for Indian banks, and ranking of distinct ownership groups. It also investigates the hitherto neglected aspect of the nature of returns-to-scale in the Indian banking industry. In addition, the work explores the key bank-specific factors that explain the inter-bank variations in efficiency and productivity growth. Overall, the empirical results of this work allow us to ascertain whether the gradualist approach to reforming the banking system in a developing economy like India has yielded the most significant policy goal of achieving efficiency and productivity gains. The authors believe that the findings of this book could give useful policy

directions and suggestions to other developing economies that have embarked on a deregulation path or are contemplating doing so.

Advance Bank Management

Macmillan 2010-02-01

Advance Bank Management comprises four modules.

The first module on economic analysis explains the micro and macro economics, markets and interest rates, role of money and banking in the economy, inter relationship between fiscal and monetary measures, op

Complete Mathematics for Cambridge Secondary 1

Book 1 Deborah Barton

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ensure your students get the challenge and

extension they need to

achieve their best in

the Cambridge IGCSE.

This course matches the

framework and will

rigorously prepare students for the strongest achievement at Checkpoint level and beyond.

Handbook of Optoelectronic Device Modeling and Simulation

Joachim Piprek

2017-10-12

Optoelectronic devices are now ubiquitous in our daily lives, from light emitting diodes (LEDs) in many household appliances to solar cells for energy. This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design, analysis, and performance optimization. It reflects the wide availability of powerful computers and advanced commercial software, which have opened the door for non-specialists

to perform sophisticated modeling and simulation tasks. The chapters comprise the know-how of more than a hundred experts from all over the world. The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field.

Air Pollution in Eastern Asia: An Integrated Perspective

Idir Bouarar
2017-08-18 This book, written by an international group of experts from China, Europe and the USA, presents a broad and comprehensive analysis of the chemical and meteorological processes responsible for the formation of air pollutants in eastern Asia, and in particular for the development of severe pollution episodes observed primarily during winter

in the northeastern part of China. With the rapid population growth, economic development and urbanization occurring in Asia, air pollution has become a major environmental problem in this part of the world. The book is organized around six distinct parts. The first part of the volume offers a general perspective on issues related to air pollution including persistent haze events in eastern and southern Asia. The second part presents an overview of air pollution sources (i.e., anthropogenic and biomass burning sources). The third part analyzes in-situ observations of chemical species in China, while the fourth part focuses on space observations of gas-phase and aerosol species. The modeling aspects are treated in the fifth part of the volume, which includes a

presentation of several air quality forecast systems and an assessment of the role of urbanization on air pollution levels. Finally, the effects of air pollution on health and crop productivity in China are discussed in the last part of the book. The book also presents an integrated view of past and present situations in Asia and provides the scientific basis from which mitigation policies can be established and air quality can be improved. Audience: This book is written for scientists, educators, students, environmental managers, policy-makers and leaders in public administration and private corporations who wish to use science-based information to mitigate air pollution. The book should help decision-makers to design effective

policies for air quality improvement and to successfully manage short-term air pollution episodes that substantially affect people's quality of life and strongly impact the economy.

Finite Volumes for Complex Applications IX - Methods, Theoretical Aspects, Examples Robert Klöfkor 2020-06-09 The proceedings of the 9th conference on "Finite Volumes for Complex Applications" (Bergen, June 2020) are structured in two volumes. The first volume collects the focused invited papers, as well as the reviewed contributions from internationally leading researchers in the field of analysis of finite volume and related methods. Topics covered include convergence and stability analysis, as well as investigations of these methods from

the point of view of compatibility with physical principles. Altogether, a rather comprehensive overview is given on the state of the art in the field. The properties of the methods considered in the conference give them distinguished advantages for a number of applications. These include fluid dynamics, magnetohydrodynamics, structural analysis, nuclear physics, semiconductor theory, carbon capture utilization and storage, geothermal energy and further topics. The second volume covers reviewed contributions reporting successful applications of finite volume and related methods in these fields. The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental

physical principle of conservation. Many finite volume methods preserve further qualitative or asymptotic properties, including maximum principles, dissipativity, monotone decay of free energy, and asymptotic stability, making the finite volume methods compatible discretization methods, which preserve qualitative properties of continuous problems at the discrete level. This structural approach to the discretization of partial differential equations becomes particularly important for multiphysics and multiscale applications. The book is a valuable resource for researchers, PhD and master's level students in numerical analysis, scientific computing and related fields such as partial differential

equations, as well as engineers working in numerical modeling and simulations.

Climate and Air Pollution Peringe

Grennfelt 2009

Daily Language Review

Evan-Moor 2010-01-01

Develop your grade 7 students sentence editing, punctuation, grammar, vocabulary, word study, and reference skills using 180 focused 10- to 15-minute daily activities.

Calculational System

Design M. Broy 1999

Computer Science has made considerable progress in making complex software and hardware systems more reliable. This is a result of practical experience and continuous process improvement on one side and of a better and deeper understanding of the fundamentals of software and system engineering on the other

side. Recent encouraging trends are a strong integration of formal techniques with practical industrial development methods and more advanced support tools such as modelling, verification, and model-checking support systems. This active area of research has a relatively short term horizon with respect to transferring technology to industrial applications. This volume is focusing on techniques and the scientific basis for calculation-based development of software and hardware systems as a foundation for advanced methods and tools for software and system engineering. This includes topics of specification, description, methodology, refinement, verification, and implementation. The volume presents new

trends and insights reflecting the current state of the art in the scientific foundation of these techniques, since such a foundation is an indispensable prerequisite for advanced development methods.

Polyhedral Methods in

Geosciences Daniele

Antonio Di Pietro

2021-06-14 The last few years have witnessed a surge in the development and usage of discretization methods supporting general meshes in geoscience applications. The need for general polyhedral meshes in this context can arise in several situations, including the modelling of petroleum reservoirs and basins, CO₂ and nuclear storage sites, etc. In the above and other situations, classical discretization methods are either not viable or require ad hoc

modifications that add to the implementation complexity.

Discretization methods able to operate on polyhedral meshes and possibly delivering arbitrary-order approximations constitute in this context a veritable technological jump. The goal of this monograph is to establish a state-of-the-art reference on polyhedral methods for geoscience applications by gathering contributions from top-level research groups working on this topic. This book is addressed to graduate students and researchers wishing to deepen their knowledge of advanced numerical methods with a focus on geoscience applications, as well as practitioners of the field.

Top 10 Seoul DK Travel

2017-06-01 Your Guide to the 10 Best of Everything in Seoul

Discover the best of everything South Korea's capital city has to offer with the essential DK Eyewitness Top 10 Travel Guide Seoul. Top 10 lists showcase the best places to visit in Seoul, from Dongdaemun market to the grand royal palace of Gyeongbokgung. Seven easy-to-follow itineraries explore the city's most interesting areas - from the arty district of Insadong to Bukhansan National Park - while reviews of the best hotels, shops and restaurants in Seoul will help you plan your perfect trip.

Modular Multilevel Converters Sixing Du
2018-01-11 An invaluable academic reference for the area of high-power converters, covering all the latest developments in the field High-power multilevel converters are well known in industry and academia as

one of the preferred choices for efficient power conversion. Over the past decade, several power converters have been developed and commercialized in the form of standard and customized products that power a wide range of industrial applications. Currently, the modular multilevel converter is a fast-growing technology and has received wide acceptance from both industry and academia. Providing adequate technical background for graduate- and undergraduate-level teaching, this book includes a comprehensive analysis of the conventional and advanced modular multilevel converters employed in motor drives, HVDC systems, and power quality improvement. *Modular Multilevel Converters: Analysis, Control, and Applications* provides an

overview of high-power converters, reference frame theory, classical control methods, pulse width modulation schemes, advanced model predictive control methods, modeling of ac drives, advanced drive control schemes, modeling and control of HVDC systems, active and reactive power control, power quality problems, reactive power, harmonics and unbalance compensation, modeling and control of static synchronous compensators (STATCOM) and unified power quality compensators. Furthermore, this book: Explores technical challenges, modeling, and control of various modular multilevel converters in a wide range of applications such as transformer and transformerless motor drives, high voltage direct current transmission systems,

and power quality improvement Reflects the latest developments in high-power converters in medium-voltage motor drive systems Offers design guidance with tables, charts graphs, and MATLAB simulations Modular Multilevel Converters: Analysis, Control, and Applications is a valuable reference book for academic researchers, practicing engineers, and other professionals in the field of high power converters. It also serves well as a textbook for graduate-level students. Industrial Maintenance and Mechatronics Shawn A. Ballee 2018-09-18 "Industrial Maintenance and Mechatronics provides support for an Industrial Technology Maintenance (ITM) program. It covers the principal industrial technology disciplines,

with a focus on electrical systems and electronic controls. It provides students with the necessary knowledge for entry-level positions in industrial maintenance and prepares them for NIMS Level 1 credentialing"--

Finite Volumes for Complex Applications VI Problems & Perspectives

Jaroslav Fořt 2011-07-21

Finite volume methods are used for various applications in fluid dynamics, magnetohydrodynamics, structural analysis or nuclear physics. A closer look reveals many interesting phenomena and mathematical or numerical difficulties, such as true error analysis and adaptivity, modelling of multi-phase phenomena or fitting problems, stiff terms in convection/diffusion equations and sources. To overcome existing problems and to find

solution methods for future applications requires many efforts and always new developments. The goal of The International Symposium on Finite Volumes for Complex Applications VI is to bring together mathematicians, physicists and engineers dealing with Finite Volume Techniques in a wide context. This book, divided in two volumes, brings a critical look at the subject (new ideas, limits or drawbacks of methods, theoretical as well as applied topics).

Multiphase Flow in Permeable Media

Martin J. Blunt 2017-02-16

This book provides a fundamental description of multiphase fluid flow through porous rock, based on understanding movement at the pore, or microscopic, scale.

Basic Statistics for the Health Sciences

Jan W.

Kuzma 2005-01-01 This is the only introductory statistics text written specifically for health science students.

Assuming no prerequisites other than high school algebra, the authors provide numerous examples from health settings, a wealth of helpful learning aids, as well as hundreds of exercises to help students succeed in the course.

In-situ Studies with Photons, Neutrons and Electrons Scattering II

Thomas Kannengiesser
2014-06-14 This book provides an insight into current research topics, focusing special attention exactly on welding issues. The presented research work demonstrates that application of synchrotron and neutron radiation in combination with other techniques enables the basic understanding of

material-related processes to be extended appreciably. It also shows ways of how to improve new materials and their use in industry. Following on from the 1st workshop in 2009 at BAM Berlin, a 2nd workshop dealing with this subject matter was held in 28-30 November, 2012 in Osaka/Japan with international participation of scientists from sixteen countries. The book includes selected contributions from the various subject blocks, precisely covering issues of practical and immediately implementable benefit to industrial enterprises. Therefore, peer-reviewed papers dealing with the following topics are contained as well: - Phase transformation during welding, metallurgy and material development - Evolution

and significance of residual stresses - Investigations into laser and electron beam welding

CPHIMS Review Guide

Himss 2016-08-05 Whether you're taking the CPHIMS exam, or simply want the most current and comprehensive overview in healthcare information and management systems today - this completely revised and updated third edition has it all. But for those preparing for the CPHIMS exam, this book is an ideal study partner. The content reflects the exam content outline covering healthcare and technology environments; systems analysis, design, selection, implementation, support, maintenance, testing, evaluation, privacy and security; and administration leadership management. Candidates can challenge

themselves with the sample multiple choice questions at the end of the book.

Poromechanics Olivier Coussy 2004-03-05

Modelling and predicting how porous media deform when subjected to external actions and physical phenomena, including the effect of saturating fluids, are of importance to the understanding of geophysics and civil engineering (including soil and rock mechanics and petroleum engineering), as well as in newer areas such as biomechanics and agricultural engineering. Starting from the highly successful First Edition, Coussy has completely re-written Mechanics of Porous Continua/Poromechanics to include: New material for: Partially saturated porous media Reactive porous media Macroscopic

electrical effects A single theoretical framework to the subject to explain the interdisciplinary nature of the subject Exercises at the end of each chapter to aid understanding The unified approach taken by this text makes it a valuable addition to the bookshelf of every PhD student and researcher in civil engineering, petroleum engineering, geophysics, biomechanics and material science.

Introduction to Information Processing

Beryl Robichaud 1989
Mathematical Aspects of Discontinuous Galerkin Methods Daniele Antonio Di Pietro 2011-11-03

This book introduces the basic ideas to build discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments. The presentation is to a

large extent self-contained and is intended for graduate students and researchers in numerical analysis. The material covers a wide range of model problems, both steady and unsteady, elaborating from advection-reaction and diffusion problems up to the Navier-Stokes equations and Friedrichs' systems. Both finite element and finite volume viewpoints are exploited to convey the main ideas underlying the design of the approximation. The analysis is presented in a rigorous mathematical setting where discrete counterparts of the key properties of the continuous problem are identified. The framework encompasses fairly general meshes regarding element shapes and hanging nodes. Salient implementation issues are also

addressed.

The Groomer Jon Athan
2020-03-13 Andrew
McCarthy grows concerned
for his family after he
catches a young man,
Zachary Denton,
photographing his
daughter, Grace
McCarthy, and other
children at a park. To
his dismay, Zachary
talks his way out of
trouble when he's
confronted by the
police. He hopes that's
the end of it. Then he
finds Zachary at a diner
and then at a grocery
store. He knows their
encounters aren't
coincidences. And just
as Andrew prepares to
defend his family, Grace
vanishes. As the police
search stalls and the
leads dry up, Andrew
decides to take matters
into his own hands. He
starts by searching for
sex offenders in the
area and researching
enhanced interrogation
techniques... He

convinces himself he'll
do anything to rescue
his daughter, unaware of
the pure evil he'll face
in his journey. He's
willing to hurt-to
torture-anyone to save
his family. Jon Athan,
the author of Into the
Wolves' Den and The
Abuse of Ashley Collins,
delves into the
underworld of internet
predators in this
disturbing horror novel.
Are your children safe?
WARNING: This book
contains graphic
content. Reader
discretion is advised.
Impedance Spectroscopy
Evgenij Barsoukov
2018-05-01 The Essential
Reference for the Field,
Featuring Protocols,
Analysis, Fundamentals,
and the Latest Advances
Impedance Spectroscopy:
Theory, Experiment, and
Applications provides a
comprehensive reference
for graduate students,
researchers, and
engineers working in

electrochemistry, physical chemistry, and physics. Covering both fundamentals concepts and practical applications, this unique reference provides a level of understanding that allows immediate use of impedance spectroscopy methods. Step-by-step experiment protocols with analysis guidance lend immediate relevance to general principles, while extensive figures and equations aid in the understanding of complex concepts. Detailed discussion includes the best measurement methods and identifying sources of error, and theoretical considerations for modeling, equivalent circuits, and equations in the complex domain are provided for most subjects under investigation. Written by a team of expert contributors, this book

provides a clear understanding of impedance spectroscopy in general as well as the essential skills needed to use it in specific applications. Extensively updated to reflect the field's latest advances, this new Third Edition: Incorporates the latest research, and provides coverage of new areas in which impedance spectroscopy is gaining importance Discusses the application of impedance spectroscopy to viscoelastic rubbery materials and biological systems Explores impedance spectroscopy applications in electrochemistry, semiconductors, solid electrolytes, corrosion, solid state devices, and electrochemical power sources Examines both the theoretical and practical aspects, and discusses when impedance spectroscopy is and is

not the appropriate solution to an analysis problem. Researchers and engineers will find value in the immediate practicality, while students will appreciate the hands-on approach to impedance spectroscopy methods. Retaining the reputation it has gained over years as a primary reference, *Impedance Spectroscopy: Theory, Experiment, and Applications* once again present a comprehensive reference reflecting the current state of the field.

Reinforced Concrete Design S. U. Pillai 2016
Abstract State Machines, Alloy, B, TLA, VDM, and Z Yamine Ait Ameur 2014-05-29
This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Abstract State Machines, B, TLA, VDM and Z, which took place in Toulouse, France, in

June 2014. The 13 full papers presented together with 3 invited talks and 19 short papers were carefully reviewed and selected from 81 submissions. The ABZ conference series is dedicated to the cross-fertilization of six related state-based and machine-based formal methods: Abstract State Machines (ASM), Alloy, B, TLA, VDM and Z. They share a common conceptual foundation and are widely used in both academia and industry for the design and analysis of hardware and software systems. The main goal of this conference series is to contribute to the integration of these formal methods, clarifying their commonalities and differences to better understand how to combine different approaches for accomplishing the

various tasks in modeling, experimental validation and mathematical verification of reliable high-quality hardware/software systems.

ECG for Beginners

Anandaraja Subramanian
2015-08-30 ECG for Beginners is a concise guide to the fundamentals of electrocardiography (the recording of the electrical activity of the heart). The book presents practical examples with a case history for each of the possible abnormalities seen in ECG. The book is divided into fourteen chapters, beginning with the basics of ECG. The following chapters interpret different readings taken from an electrocardiogram including P wave, QRS complex, T and U waves, ST and PR segments, PR and QT intervals.

Subsequent chapters cover specific abnormalities which can be identified by electrocardiography, including ectopic beats, escape beat and rhythms, chamber enlargement and hypertrophy, coronary artery disease, heart blocks, arrhythmias and miscellaneous conditions. Each abnormality is presented with a unique electrocardiogram. The final synopsis section summarises all the concepts in the book for ease of reference, and an appendix provides extra information on specific abnormalities. Further enhanced by nearly 100 full colour images, ECG for Beginners is an invaluable resource for medical students. Key Points Practical guide to the fundamentals of electrocardiography Presents interpretations of electrocardiogram

readings Identifies abnormalities in electrocardiograms 96 full colour images

Air Pollution Modeling and its Application XXVI

Clemens Mensink
2019-11-23 Current developments in air pollution modeling are explored as a series of contributions from researchers at the forefront of their field. This newest contribution on air pollution modeling and its application is focused on local, urban, regional and intercontinental modeling; emission modeling and processing; data assimilation and air quality forecasting; model assessment and evaluation; atmospheric aerosols. Additionally, this work also examines the relationship between air quality and human health and the effects of climate change on air quality. This work is a

collection of selected papers presented at the 36th International Technical Meeting on Air Pollution Modeling and its Application, held in Ottawa, Canada, May 14-18, 2018. The book is intended as reference material for students and professors interested in air pollution modeling at the graduate level as well as researchers and professionals involved in developing and utilizing air pollution models.

Touch of Class Bertrand Meyer 2009-08-28 This text combines a practical, hands-on approach to programming with the introduction of sound theoretical support focused on teaching the construction of high-quality software. A major feature of the book is the use of Design by Contract. *Technologies and*

Applications for Smart Charging of Electric and Plug-in Hybrid Vehicles
Ottorino Veneri

2018-07-07 This book outlines issues related to massive integration of electric and plug-in hybrid electric vehicles into power grids. Electricity is becoming the preferred energy vector for the next new generation of road vehicles. It is widely acknowledged that road vehicles based on full electric or hybrid drives can mitigate problems related to fossil fuel dependence. This book explains the emerging and understanding of storage systems for electric and plug-in hybrid vehicles. The recharging stations for these types of vehicles might represent a great advantage for the electric grid by facilitating integration of renewable and distributed energy

production. This book presents a broad review from analyzing current literature to on-going research projects about the new power technologies related to the various charging architectures for electric and plug-in hybrid vehicles. Specifically focusing on DC fast charging operations, as well as, grid-connected power converters and the full range of energy storage systems. These key components are analyzed for distributed generation and charging system integration into micro-grids. The authors demonstrate that these storage systems represent effective interfaces for the control and management of renewable and sustainable distributed energy resources. New standards and applications are emerging from micro-grid

pilot projects around the world and case studies demonstrate the convenience and feasibility of distributed energy management. The material in this unique volume discusses potential avenues for further research toward achieving more reliable, more secure and cleaner energy.

The Hybrid High-Order Method for Polytopal Meshes

Daniele Antonio Di Pietro 2020-04-03

This monograph provides an introduction to the design and analysis of Hybrid High-Order methods for diffusive problems, along with a panel of applications to advanced models in computational mechanics. Hybrid High-Order methods are new-generation numerical methods for partial differential equations with features that set them apart from

traditional ones. These include: the support of polytopal meshes, including non-star-shaped elements and hanging nodes; the possibility of having arbitrary approximation orders in any space dimension; an enhanced compliance with the physics; and a reduced computational cost thanks to compact stencil and static condensation. The first part of the monograph lays the foundations of the method, considering linear scalar second-order models, including scalar diffusion – possibly heterogeneous and anisotropic – and diffusion-advection-reaction. The second part addresses applications to more complex models from the engineering sciences: non-linear Leray-Lions problems, elasticity, and incompressible fluid flows. This book is

primarily intended for graduate students and researchers in applied mathematics and numerical analysis, who will find here valuable analysis tools of general scope.

Geostatistics Jean-Paul Chilès 2012-02-08 Praise for the First Edition ". . . a readable, comprehensive volume that . . . belongs on the desk, close at hand, of any serious researcher or practitioner."

–Mathematical Geosciences The state of the art in geostatistics Geostatistical models and techniques such as kriging and stochastic multi-realizations exploit spatial correlations to evaluate natural resources, help optimize their development, and address environmental issues related to air and water quality, soil pollution, and forestry.

Geostatistics: Modeling

Spatial Uncertainty, Second Edition presents a comprehensive, up-to-date reference on the topic, now featuring the latest developments in the field. The authors explain both the theory and applications of geostatistics through a unified treatment that emphasizes methodology. Key topics that are the foundation of geostatistics are explored in-depth, including stationary and nonstationary models; linear and nonlinear methods; change of support; multivariate approaches; and conditional simulations. The Second Edition highlights the growing number of applications of geostatistical methods and discusses three key areas of growth in the field: New results and methods, including kriging very large datasets; kriging with outliers; nonseparable

space-time
covariances; multipoint
simulations; pluri-
gaussian simulations;
gradual deformation; and
extreme value
geostatistics Newly
formed connections
between geostatistics
and other approaches such
as radial basis
functions, Gaussian
Markov random fields, and
data assimilation New
perspectives on topics
such as collocated
cokriging, kriging with
an external drift,
discrete Gaussian
change-of-support
models, and simulation
algorithms
Geostatistics, Second
Edition is an excellent
book for courses on the
topic at the graduate
level. It also serves as
an invaluable reference
for earth scientists,
mining and petroleum
engineers, geophysicists,
and environmental
statisticians who
collect and analyze data

in their everyday work.
501 Questions to Master
GED Test Mathematics
Learning Express
2017-09-07 Powerful
practice for this
important and tough
exam--501 GED math
questions with detailed
answer explanations.
Fractional Dynamics and
Control Dumitru Baleanu
2011-11-19 Fractional
Dynamics and Control
provides a comprehensive
overview of recent
advances in the areas of
nonlinear dynamics,
vibration and control
with analytical,
numerical, and
experimental results.
This book provides an
overview of recent
discoveries in
fractional control,
delves into fractional
variational principles
and differential
equations, and applies
advanced techniques in
fractional calculus to
solving complicated
mathematical and

physical problems. Finally, this book also discusses the role that fractional order modeling can play in complex systems for engineering and science.

Tourism Education

2015-09-23 What knowledge and skills should tourism students be exposed to? How should tourism education programs at all levels be designed to create responsible leaders for the future of tourism? What is the employability and range of careers students can expect after graduation? This book examines and seeks to provide answers to these three questions.

Five Millennium Catalog of Lunar Eclipses: -1999 To +3000

Fred Espenak
2021-08-07 During the 5,000-year period from -1999 to +3000 (2000 BCE to 3000 CE), Earth will experience 12,064 eclipses of the Moon.

The eclipses are distributed as follows: 4,378 penumbral eclipses, 4,207 partial eclipses, and 3,479 total eclipses. The "Five Millennium Catalog of Lunar Eclipses: -1999 to +3000" contains an individual figures and maps for each eclipse showing the geographic regions of visibility for each phase (penumbral, partial, and total). The uncertainty in Earth's rotational period expressed in DT and its impact on the geographic visibility of eclipses in the past and future is discussed. The statistics of the lunar eclipse distribution over 5,000 years are examined in detail. This includes eclipse types by month and by century, eclipse frequency in the calendar year, extremes in eclipse magnitude for all eclipse types, maximum durations of penumbral, partial, and

total eclipses, and eclipse duos (two eclipses within 30 days of each other). Finally, the periodicity of lunar eclipses is investigated with particular attention to the Saros cycle. Tables list the start and end dates, number, and type of eclipses of every Saros series in progress during the 5,000-year period covered by the

Five Millennium Catalog. The Catalog serves as a supplement to the 2-volume "Five Millennium Canon of Solar Eclipses" which contains a map of every eclipse. The Catalog and the Canon both use the same solar and lunar ephemerides as well as the same value of T . This 1-to-1 correspondence between them enhances the value of each.