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Understanding Credit Derivatives and Related Instruments - Antulio N. Bomfim

2015-11-23

Understanding Credit Derivatives and Related Instruments, Second Edition is an intuitive, rigorous overview that links the practices of valuing and trading credit derivatives with academic theory. Rather than presenting highly technical explorations, the book offers summaries of major subjects and the principal perspectives associated with them. The book's centerpiece is pricing and valuation issues, especially valuation tools and their uses in credit models. Five new chapters cover practices that have become commonplace as a result of the 2008 financial crisis, including standardized premiums and upfront payments. Analyses of regulatory responses to the crisis for the credit derivatives market (Basel III, Dodd-Frank, etc.) include all the necessary statistical and mathematical background for readers to easily follow the pricing topics. Every reader familiar with mid-level mathematics who wants to understand the functioning of the derivatives markets (in both practical and academic contexts) can fully satisfy his or her interests with the comprehensive assessments in this book. Explores the role that credit derivatives played during the economic crisis, both as hedging instruments and as vehicles that potentially magnified losses for some investors Comprehensive overview of single-name and multi-name credit derivatives in terms of market

specifications, pricing techniques, and regulatory treatment Updated edition uses current market statistics (market size, market participants, and uses of credit derivatives), covers the application of CDS technology to other asset classes (CMBX, ABX, etc.), and expands the treatment of individual instruments to cover index products, and more

Occupancy Estimation and Modeling - Darryl I. MacKenzie 2017-11-17

Occupancy Estimation and Modeling: Inferring Patterns and Dynamics of Species Occurrence, Second Edition, provides a synthesis of model-based approaches for analyzing presence-absence data, allowing for imperfect detection. Beginning from the relatively simple case of estimating the proportion of area or sampling units occupied at the time of surveying, the authors describe a wide variety of extensions that have been developed since the early 2000s. This provides an improved insight about species and community ecology, including, detection heterogeneity; correlated detections; spatial autocorrelation; multiple states or classes of occupancy; changes in occupancy over time; species co-occurrence; community-level modeling, and more. Occupancy Estimation and Modeling: Inferring Patterns and Dynamics of Species Occurrence, Second Edition has been greatly expanded and detail is provided regarding the estimation methods and examples of their application are given. Important study design recommendations are also covered to

give a well rounded view of modeling. Provides authoritative insights into the latest in occupancy modeling Examines the latest methods in analyzing detection/no detection data surveys Addresses critical issues of imperfect detectability and its effects on species occurrence estimation Discusses important study design considerations such as defining sample units, sample size determination and optimal effort allocation

Zimbabwe National Bibliography - 1990

Reflections on Educational Achievement - Rainer H. Lehmann, Wilfried Bos, Thomas N.: Festschrift Postlethwaite

Handbook of Oil Spill Science and Technology - Merv Fingas 2015-02-02

Provides a scientific basis for the cleanup and for the assessment of oil spills Enables Non-scientific officers to understand the science they use on a daily basis Multi-disciplinary approach covering fields as diverse as biology, microbiology, chemistry, physics, oceanography and toxicology Covers the science of oil spills from risk analysis to cleanup and through the effects on the environment Includes case studies examining and analyzing spills, such as Tasman Spirit oil spill on the Karachi Coast, and provides lessons to prevent these in the future

Early Algebraization - Jinfa Cai 2011-02-24

In this volume, the authors address the development of students' algebraic thinking in the elementary and middle school grades from curricular, cognitive, and instructional perspectives. The volume is also international in nature, thus promoting a global dialogue on the topic of early Algebraization.

Selected Water Resources Abstracts - 1986-07

Education Law, Strategic Policy and Sustainable Development in Africa - A.C Onuora-Oguno 2017-07-06

This book outlines the findings and suggestions of the Law and Society Association's International Research Collaborations, which focused on the African Union's Agenda 2063. This outlined the ideal Africa aspired to by the year 2063: 'the Africa we want'. The authors examine socio-economic rights issues and their

impact on developing a strong educational agenda that can drive Africa to realize Agenda 2063. As Africa's development has remained slow in the face of many challenges, the need to embrace good governance, rule of law and human rights obligations are major tools to realize the continent's potential. The project focuses in particular on the central place of education law and policy in achieving the goals of Agenda 2063.

MATLAB for Neuroscientists - Pascal Wallisch 2014-01-09

MATLAB for Neuroscientists serves as the only complete study manual and teaching resource for MATLAB, the globally accepted standard for scientific computing, in the neurosciences and psychology. This unique introduction can be used to learn the entire empirical and experimental process (including stimulus generation, experimental control, data collection, data analysis, modeling, and more), and the 2nd Edition continues to ensure that a wide variety of computational problems can be addressed in a single programming environment. This updated edition features additional material on the creation of visual stimuli, advanced psychophysics, analysis of LFP data, choice probabilities, synchrony, and advanced spectral analysis. Users at a variety of levels—advanced undergraduates, beginning graduate students, and researchers looking to modernize their skills—will learn to design and implement their own analytical tools, and gain the fluency required to meet the computational needs of neuroscience practitioners. The first complete volume on MATLAB focusing on neuroscience and psychology applications Problem-based approach with many examples from neuroscience and cognitive psychology using real data Illustrated in full color throughout Careful tutorial approach, by authors who are award-winning educators with strong teaching experience

Annual Report of the Secretary for Education for the Year Ended ... - Zimbabwe. Ministry of Education 1980

Computers in Third-World Schools - David Hawkrigde 2016-07-27

The reasons why governments of developing countries should put computer technology in

their schools are highly controversial, but no less than the actual use being made of these comparatively expensive machines and their software. This book looks at experience in African, Asian and Arabic-speaking countries that already have computers in some of their schools. It is based mainly on research in China, Jordan, Kenya, Mauritius, Sri Lanka and Tunisia. The authors debate policy and practice in the light of experience to date. They identify the rationales commonly deployed by Ministries of Education and international agencies, but argue themselves for a long-term view of the potential of computers to liberalise education, and through such education to reduce dependency and inequity.

CDS 14 Years Mathematics, English & General Knowledge Topic-wise Solved Papers (2007 - 2020) - 4th Edition - Disha Experts 2020-06-20

Using the Results of a National Assessment of Educational Achievement - Thomas Kellaghan 2009

What are students learning? Throughout the world, governments striving to improve educational quality are turning to national assessments to provide this much-needed information in key curriculum areas. The capacity for carrying out national assessments has grown remarkably in recent years, but it has not been matched by widespread use of their findings. This book seeks to maximize an appreciation for the value of such data and to assist countries in exploiting the knowledge that national assessments yield. Using the Results of a National Assessment of Educational Achievement identifies the main factors affecting the use of national assessment findings. These include the political context in which an assessment is carried out, the nature of the assessment (census based or sample based), the assignment of accountability for the results, and the quality of assessment instruments. The book describes the type of information that the main report of a national assessment should contain, as well as other means of communicating findings to technical and nontechnical audiences. It outlines general considerations in translating national assessment results into policy and action, and examines specific procedures for using the data in policy making,

educational management, teaching, and promoting public awareness. The topics addressed in this volume should be of interest to policy makers, educators, researchers, and development practitioners.

Social Computing, Behavioral-Cultural Modeling and Prediction - William G. Kennedy 2014-03-14

This book constitutes the refereed proceedings of the 7th International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction, SBP 2014, held in Washington, DC, USA, in April 2014. The 51 full papers presented were carefully reviewed and selected from 101 submissions. The SBP conference provides a forum for researchers and practitioners from academia, industry, and government agencies to exchange ideas on current challenges in social computing, behavioral-cultural modeling and prediction, and on state-of-the-art methods and best practices being adopted to tackle these challenges. The topical areas addressed by the papers are social and behavioral sciences, health sciences, military science, and information science.

Index of Conference Proceedings - British Library. Document Supply Centre 2001

Abstracts Journal of the African Studies Centre Leiden - Rijksuniversiteit te Leiden. Afrika-Studiecentrum 1991

World Meetings Outside U.S.A. and Canada - 2001

PISA Take the Test Sample Questions from OECD's PISA Assessments - OECD 2009-02-02

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

Recent Advances in Chaotic Systems and Synchronization - Olfa Boubaker 2018-11-05

Recent Advances in Chaotic Systems and Synchronization: From Theory to Real World Applications is a major reference for scientists and engineers interested in applying new computational and mathematical tools for solving complex problems related to modeling, analyzing and synchronizing chaotic systems. Furthermore, it offers an array of new, real-

world applications in the field. Written by eminent scientists in the field of control theory and nonlinear systems from 19 countries (Cameroon, China, Ethiopia, France, Greece, India, Italia, Iran, Japan, Mexico, and more), this book covers the latest advances in chaos theory, along with the efficiency of novel synchronization approaches. Readers will find the fundamentals and algorithms related to the analysis and synchronization of chaotic systems, along with key applications, including electronic design, text and image encryption, and robot control and tracking. Explores and evaluates the latest real-world applications of chaos across various engineering and biomedical engineering fields Investigates advances in chaos synchronization techniques, including the continuous sliding-mode control approach, hybrid synchronization between chaotic and hyperchaotic systems, and neural network synchronization Presents recent advances in chaotic systems through an overview of new systems and new proprieties

Riemannian Geometry - Isaac Chavel 1995-01-27

This book provides an introduction to Riemannian geometry, the geometry of curved spaces. Its main theme is the effect of the curvature of these spaces on the usual notions of geometry, angles, lengths, areas, and volumes, and those new notions and ideas motivated by curvature itself. Isoperimetric inequalities--the interplay of curvature with volume of sets and the areas of their boundaries--is reviewed along with other specialized classical topics. A number of completely new themes are created by curvature: they include local versus global geometric properties, that is, the interaction of microscopic behavior of the geometry with the macroscopic structure of the space. Also featured is an ambitious "Notes and Exercises" section for each chapter that will develop and enrich the reader's appetite and appreciation for the subject.

A Handbook on Education and Training in Zimbabwe - Zimbabwe. Ministry of Labour, Manpower Planning, and Social Welfare 1983

American Universities and Colleges, 19th Edition [2 Volumes] - Praeger 2010-04-16

For well over a half century, American Universities and Colleges has been the most

comprehensive and highly respected directory of four-year institutions of higher education in the United States. A two-volume set that Choice magazine hailed as a most important resource in its November 2006 issue, this revised edition features the most up-to-date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams. In addition, the set serves as an indispensable reference source for parents, college advisors, educators, and public, academic, and high school librarians. These two volumes provide extensive information on 1,900 institutions of higher education, including all accredited colleges and universities that offer at least the baccalaureate degree. This essential resource offers pertinent, statistical data on such topics as tuition, room and board; admission requirements; financial aid; enrollments; student life; library holdings; accelerated and study abroad programs; departments and teaching staff; buildings and grounds; and degrees conferred. Volume two of the set provides four indexes, including an institutional Index, a subject accreditation index, a levels of degrees offered index, and a tabular index of summary data by state. These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively. Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics.

Artificial Intelligence for Computational Modeling of the Heart - Tommaso Mansi 2019-11-25

Artificial Intelligence for Computational Modeling of the Heart presents recent research developments towards streamlined and automatic estimation of the digital twin of a patient's heart by combining computational modeling of heart physiology and artificial intelligence. The book first introduces the major aspects of multi-scale modeling of the heart, along with the compromises needed to achieve subject-specific simulations. Reader will then learn how AI technologies can unlock robust estimations of cardiac anatomy, obtain meta-models for real-time biophysical computations, and estimate model parameters from routine clinical data. Concepts are all illustrated through concrete clinical applications. Presents recent

advances in computational modeling of heart function and artificial intelligence technologies for subject-specific applications Discusses AI-based technologies for robust anatomical modeling from medical images, data-driven reduction of multi-scale cardiac models, and estimations of physiological parameters from clinical data Illustrates the technology through concrete clinical applications and discusses potential impacts and next steps needed for clinical translation

Resources in Education - 1998

The World of Science Education - Femi S. Otulaja 2017-09-12

Each volume in the 7-volume series *The World of Science Education* reviews research in a key region of the world. These regions include North America, South and Latin America, Asia, Australia and New Zealand, Europe and Israel, North Africa and the Middle East, and Sub-Saharan Africa. The focus of this Handbook is on research in science education in mostly former British colonies in Sub-Saharan Africa and the scholarship that most closely support this program. The reviews of the research situate what has been accomplished within a given field in Sub-Saharan Africa rather than an international context. The purpose therefore is to articulate and exhibit regional networks and trends that produced specific forms of science education. The thrust lies in identifying the roots of research programs and sketching trajectories - focusing the changing façade of problems and solutions within regional contexts. The approach allows readers to review what has been done and accomplished, what is missing and what might be done next.

Moto - 2001

Harcourt Science Workbook - 1999

Oswaal CDS Combined Defence Services Yearwise (2018-2022) 10 Solved Papers Elementary Mathematics, English & GK (Set of 3 Books) (For 2023 Exam) - Oswaal Editorial Board 2022-11-08

• 100% Updated with Fully Solved April & September 2022 Papers • Includes fully solved 2022 Paper (I & 2) held in April & September with Hints • 2 - Sample Question Papers in the

book for practice. • Crisp Revision with Smart Mind Maps • Valuable Exam Insights with Expert Tips to crack CDS in first attempt • Concept Clarity with Detailed Explanations • 100% Exam Readiness with 5 Years Chapter-wise Trend Analysis (2018-2022)

Ending the Torment - United Nations Office of the Special Representative of the Secretary-General on Violence against Children 2016-09-23

Eighteen experts in the field of bullying and cyberbullying and the SRSG on Violence against Children, have written a unique contribution from their specific area of expertise, addressing bullying and cyberbullying. Starting with a human rights foundation and children participation, it is followed by examples that show different experiences in developing policies and legislation, including specific dimensions and vulnerable groups to be kept in mind. The publication then provides different examples of the very few evidence-based interventions that have proven to work in the prevention and respond to bullying and cyberbullying in the school and its surroundings, decreasing its prevalence. The publication ends with information on global data and the need for better collection and analysis methodologies; a section addressing some of the specific aspects presented by cyberbullying and the use of information and communication technologies, and ends with an overview of prevalence of bullying and cyberbullying in different regions in the world.

Developments in Numerical Ecology - Pierre Legendre 2013-06-29

From earlier ecological studies it has become apparent that simple univariate or bivariate statistics are often inappropriate, and that multivariate statistical analyses must be applied. Despite several difficulties arising from the application of multivariate methods, community ecology has acquired a mathematical framework, with three consequences: it can develop as an exact science; it can be applied operationally as a computer-assisted science to the solution of environmental problems; and it can exchange information with other disciplines using the language of mathematics. This book comprises the invited lectures, as well as working group reports, on the NATO workshop held in Roscoff

(France) to improve the applicability of this new method numerical ecology to specific ecological problems.

The African Mother Tongue and Mathematical Ideas - Abdul Karim Bangura 2020-06-02

This book by renowned scholar Dr Abdul Karim Bangura combines linguistics and mathematics to show how and why African-centred mathematical ideas can be a driving force in Africa's development efforts. Bangura explores the concept that Africa has been the centre of the History of Mathematics for thousands of years, as the civilizations that emerged across the continent developed contributions which would enrich both ancient and modern understanding of nature through mathematics. However, scholars and other professionals working in the field of mathematics education in Africa have identified a plethora of issues in carrying out their tasks. This is highlighted by one of the most compelling arguments in the book, which is that a major reason for these problems is the fact that the African mother tongues has been greatly neglected in the teaching of mathematics in the continent. Bangura asserts that a change has to be made in order for Africa to benefit from the exceptional opportunities mathematics offer, showing that, even if there is a great body of work connecting linguistics and mathematics, few analyses have been performed on the link between African languages and mathematics—and the ones that have been made are not theoretically-grounded on linguistics. Thus, the book begins by identifying the objects of study of linguistics and mathematics, and delineates which ones they have in common. Next, since the object of study of linguistics is language, the nine design features of language are employed to examine each of the objects as it pertains to African languages. After that, mathematical ideas of sustainability and those of tipping points are suggested as means to help Africa's development efforts.

Examination Questions in Mathematics - College Entrance Examination Board 1920

Index Medicus - 2002

Parliamentary Papers - Queensland.

Parliament. Legislative Assembly 1987

A Primer for Mathematics Competitions - Alexander Zawaira 2008-10-31

The importance of mathematics competitions has been widely recognised for three reasons: they help to develop imaginative capacity and thinking skills whose value far transcends mathematics; they constitute the most effective way of discovering and nurturing mathematical talent; and they provide a means to combat the prevalent false image of mathematics held by high school students, as either a fearsomely difficult or a dull and uncreative subject. This book provides a comprehensive training resource for competitions from local and provincial to national Olympiad level, containing hundreds of diagrams, and graced by many light-hearted cartoons. It features a large collection of what mathematicians call "beautiful" problems - non-routine, provocative, fascinating, and challenging problems, often with elegant solutions. It features careful, systematic exposition of a selection of the most important topics encountered in mathematics competitions, assuming little prior knowledge. Geometry, trigonometry, mathematical induction, inequalities, Diophantine equations, number theory, sequences and series, the binomial theorem, and combinatorics - are all developed in a gentle but lively manner, liberally illustrated with examples, and consistently motivated by attractive "appetiser" problems, whose solution appears after the relevant theory has been expounded. Each chapter is presented as a "toolchest" of instruments designed for cracking the problems collected at the end of the chapter. Other topics, such as algebra, co-ordinate geometry, functional equations and probability, are introduced and elucidated in the posing and solving of the large collection of miscellaneous problems in the final toolchest. An unusual feature of this book is the attention paid throughout to the history of mathematics - the origins of the ideas, the terminology and some of the problems, and the celebration of mathematics as a multicultural, cooperative human achievement. As a bonus the aspiring "mathlete" may encounter, in the most enjoyable way possible, many of the topics that form the core of the standard school curriculum.

British Education Index - 2006

Geometry for Naval Architects - Adrian Biran
2018-11-19

Geometry for Naval Architects is the essential guide to the principles of naval geometry. Formerly fragmented throughout various sources, the topic is now presented in this comprehensive book that explains the history and specific applications of modern naval architecture mathematics and techniques, including numerous examples, applications and references to further enhance understanding. With a natural four-section organization (Traditional Methods, Differential Geometry, Computer Methods, and Applications in Naval Architecture), users will quickly progress from basic fundamentals to specific applications. Careful instruction and a wealth of practical applications spare readers the extensive searches once necessary to understand the mathematical background of naval architecture and help them understand the meanings and uses of discipline-specific computer programs. Explains the basics of geometry as applied to naval architecture, with specific practical applications included throughout the book for real-life insights Presents traditional methods and computational techniques (including MATLAB) Provides a wealth of examples in MATLAB and MultiSurf (a computer-aided design package for naval architects and engineers) Includes supplemental MATLAB and MultiSurf code available on a companion site
Applied Dimensional Analysis and Modeling - Thomas Szirtes 2007-04-27

Applied Dimensional Analysis and Modeling provides the full mathematical background and step-by-step procedures for employing dimensional analyses, along with a wide range of applications to problems in engineering and applied science, such as fluid dynamics, heat flow, electromagnetics, astronomy and economics. This new edition offers additional worked-out examples in mechanics, physics, geometry, hydrodynamics, and biometry. Covers 4 essential aspects and applications: principal characteristics of dimensional systems, applications of dimensional techniques in engineering, mathematics and geometry,

applications in biosciences, biometry and economics, applications in astronomy and physics Offers more than 250 worked-out examples and problems with solutions Provides detailed descriptions of techniques of both dimensional analysis and dimensional modeling
The Zimbabwe Science News - 1981

Culture and Civilization - Irving Horowitz
2018-02-06

Volume three of *Culture & Civilization* continues a pattern in this annual series of dealing with major themes of the past, with a strong sense of how the everyday world of the second decade of the twenty-first century impacts cultural history and civilizations pushing up against each other. A constant theme throughout is the immediate impact of Globalism: in economics, government, manners, styles, egalitarianism in political demands, and terrorism as a response to democratic systems. Each in its own way has coalesced to bring discourse on civilization levels back into vogue. Global issues in size, scope, and scenario are herein placed on exhibition once again. Among the noteworthy contributions are substantial articles by Jason Powell, *Global Aging*; Tony Leon, *Liberal Democracy in Africa*; Yoaz Hendel, *Terrorism and Piracy*; Norman Manea and Paul Hollander, *"Twenty Years After the Fall of the Berlin Wall"*; Aleksander Kwasniewski, *"World Views of the European Union"*; Gregg Rickman, *"The Nazi Religion and the Holocaust"*; and Walter Laqueur, *"Europe's Road to the Mosque"*. This volume features special essays on Jean Francois Revel's *Uncommon Insight*; John Maynard Keynes *Revisited*; Stefan Zweig: *Master Builder of the Spirit*; and *Inside Shakespeare's Hamlet*. As with the previous volumes, the writings are brilliantly realized in form with serious content to match. Threading a needle between abstracted empiricism that dominates present science policy and speculative metaphysics that offers little else than a great vision of the world, this volume of *Culture & Civilization* on Globalism charts a space for which there is a felt need by large publics, responded to by serious social science specialists capable of addressing such interests in historically meaningful contexts.