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What Mathematics from Africa? Feb 23 2022

[Probability and Algorithms](#) Nov 22 2021 Some of the hardest computational problems have been successfully attacked through the use of probabilistic algorithms, which have an element of randomness to them. Concepts from the field of probability are also increasingly useful in analyzing the performance of algorithms, broadening our understanding beyond that provided by the worst-case or average-case analyses. This book surveys both of these emerging areas on the interface of the mathematical sciences and computer science. It is designed to attract new researchers to this area and provide them with enough background to begin explorations of their own.

[Actuarial Mathematics](#) Jul 19 2021 These lecture notes from the 1985 AMS Short Course examine a variety of topics from the contemporary theory of actuarial mathematics. Recent clarification in the concepts of probability and statistics has laid a much richer foundation for this theory. Other factors that have shaped the theory include the continuing advances in computer science, the flourishing mathematical theory of risk, developments in stochastic processes, and recent growth in the theory of finance. In turn, actuarial concepts have been applied to other areas such as biostatistics, demography, economic, and reliability engineering.

[Number Theory Day](#) Nov 10 2020

[Handbook of the Universities of Pakistan](#) Nov 30 2019

[Programmed Statistics \(Question-Answers\)](#) Oct 22 2021 This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis, Mathematical Formulas And Adequate Details In Question-Answer Form. It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner. The Book Provides Ready-Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination, Competitions, Interviews, Viva-Voce And Applied Statistics Courses. One Will Not Have To Run From Pillar To Post For Guidance In Statistics. The Answers Are Self-Explanatory. For Objective Type Questions, At Many Places, The Answers Are Given With Proper Hints. Fill-In-The-Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time. An Adequate Number Of Multiple-Choice Questions Inculcate A Deep Understanding Of The Concepts. The Book Also Provides A Good Number Of Numerical Problems, Each Of Which Requires Fresh Thinking For Its Solution. It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses, As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner. The Book Can Also Serve As An Exhaustive Text.

Analysis and Approaches for IBDP Mathematics Book 2 Oct 10 2020 Your Practice Set - Analysis and Approaches for IBDP Mathematics Book 2 is the second book of our exercise book series which is suitable for both Analysis and Approaches (MAA) Higher Level students. Here are some of the main features: Compulsory topics for AA HL students 80 example questions + 320 intensive exercise questions 320 short questions + 80 structured long questions Comprehensive Paper 3 analysis and practice questions Holistic exploration on assessment styled questions Special GDC skills included QR Codes for online solution

Evolving Corporate Education Strategies for Developing Countries: The Role of Universities Jun 17 2021 Educational commissions continue to press the need for growth in higher education. In particular, universities in developing countries persist in putting their academic theory into practice by aiming to integrate their intellectual and cultural traditions into higher education. Evolving Corporate Education Strategies for Developing Countries: The Role of Universities presents the theories and opportunities for integrating corporate education into traditional universities as well as highlighting the professional development in different subject areas. This book provides relevant research important for policy makers, practitioners and scholars of higher education.

Problems and Solutions in Mathematical Finance, Volume 2 Mar 03 2020 Detailed guidance on the mathematics behind equity derivatives Problems and Solutions in Mathematical Finance Volume II is an innovative reference for quantitative practitioners and students, providing guidance through a range of mathematical problems encountered in the finance industry. This volume focuses solely on equity derivatives problems, beginning with basic problems in derivatives securities before moving on to more advanced applications, including the construction of volatility surfaces to price exotic options. By providing a methodology for solving theoretical and practical problems, whilst explaining the limitations of financial models, this book helps readers to develop the skills they need to advance their careers. The text covers a wide range of derivatives pricing, such as European, American, Asian, Barrier and other exotic options. Extensive appendices provide a summary of important formulae from calculus, theory of probability, and differential equations, for the convenience of readers. As Volume II of the four-volume Problems and Solutions in Mathematical Finance series, this book provides clear explanation of the mathematics behind equity derivatives, in order to help readers gain a deeper understanding of their mechanics and a firmer grasp of the calculations. Review the fundamentals of equity derivatives Work through problems from basic securities to advanced exotics pricing Examine numerical methods and detailed derivations of closed-form solutions Utilise formulae for probability, differential equations, and more Mathematical finance relies on mathematical models, numerical methods, computational algorithms and simulations to make trading, hedging, and investment decisions. For the practitioners and graduate students of quantitative finance, Problems and Solutions in Mathematical Finance Volume II provides essential guidance principally towards the subject of equity derivatives.

Strings and Geometry Nov 03 2022 Contains selection of expository and research article by lecturers at the school. Highlights current interests of researchers working at the interface between string theory and algebraic supergravity, supersymmetry, D-branes, the McKay correspondence and Fourier-Mukai transform.

Physical Combinatorics May 17 2021 Taking into account the various criss-crossing among mathematical subject, Physical Combinatorics presents new results and exciting ideas from three viewpoints; representation theory, integrable models, and combinatorics. This work is concerned with combinatorial aspects arising in the theory of exactly solvable models and representation theory. Recent developments in integrable models reveal an unexpected link between representation theory and statistical mechanics through combinatorics.

Methods of Real Analysis Oct 02 2022 This is a textbook for a one-year course in analysis designn for students who have completed the ordinary course in elementary calculus.

Mathematics, Education and History Jan 31 2020 This book includes 18 peer-reviewed papers from nine countries, originally presented in a shorter form at TSG 25 The Role of History of Mathematics in Mathematics Education, as part of ICME-13 during. It also features an introductory chapter, by its co-editors, on the structure and main points of the book with an outline of recent developments in exploring the role of history and epistemology in mathematics education. It serves as a valuable contribution in this domain, by making reports on recent developments in this field available to the international educational community, with a special focus on relevant research results since 2000. The 18 chapters of the book are divided into five interrelated parts that underlie the central issues of research in this domain: 1.

Theoretical and conceptual frameworks for integrating history and epistemology in mathematics in mathematics education; 2. Courses and didactical material: Design, implementation and evaluation; 3. Empirical investigations on implementing history and epistemology in mathematics education; 4. Original historical sources in teaching and learning of and about mathematics; 5. History and epistemology of mathematics: Interdisciplinary teaching and sociocultural aspects. This book covers all levels of education, from primary school to tertiary education, with a particular focus on teacher education. Additionally, each chapter refers to and/or is based on empirical research, in order to support, illuminate, clarify and evaluate key issues, main questions, and conjectured theses raised by the authors or in the literature on the basis of historical-epistemological or didactical-cognitive arguments.

Mathematics Rebooted Apr 15 2021 Would you like to understand more mathematics? Many people would. Perhaps at school you liked mathematics for a while but were then put off because you missed a key idea and kept getting stuck. Perhaps you always liked mathematics but gave it up because your main interest was music or languages or science or philosophy. Or perhaps you studied mathematics to advanced levels, but have now forgotten most of what you once knew. Whichever is the case, this book is for you. It aims to build on what you know, revisiting basic ideas with a focus on meaning. Each chapter starts with an idea from school mathematics - often primary school mathematics - and gradually builds up a network of links to more advanced material. It explores fundamental ideas in depth, using insights from research in mathematics education and psychology to explain why people often get confused, and how to overcome that confusion. For nervous readers, it will build confidence by clarifying basic ideas. For more experienced readers, it will highlight new connections to more advanced material. Throughout, the book explains how mathematicians think, and how ordinary people can understand and enjoy mathematical ideas and arguments. If you would like to be better informed about the intrinsic elegance of mathematics, this engaging guide is the place to start.

Mathematics Education in Singapore Jun 05 2020 This book provides a one-stop resource for mathematics educators, policy makers and all who are interested in learning more about the why, what and how of mathematics education in Singapore. The content is organized according to three significant and closely interrelated components: the Singapore mathematics curriculum, mathematics teacher education and professional development, and learners in Singapore mathematics classrooms. Written by leading researchers with an intimate understanding of Singapore mathematics education, this up-to-date book reports the latest trends in Singapore mathematics classrooms, including mathematical modelling and problem solving in the real-world context.

Second International Handbook of Mathematics Education Jan 13 2021 The Second International Handbook of Mathematics Education is an essential resource for students, researchers, teacher educators and curriculum policy makers in the field of mathematics education. It is a follow-up to the first Handbook, which laid down the base-line in many areas of the field of mathematics education. The first Handbook was published in 1996, covering research done prior to 1994. This Second Handbook: *covers the changes and developments that have occurred in the field since 1994; *has a section focusing on public policy and mathematics education; *is an essential reference to all those who shape educational policy.

Progress in Industrial Mathematics at ECMI 2016 Aug 27 2019 This book addresses mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. Using the classification system defined in the EU Framework Programme for Research and Innovation H2020, several of the topics covered belong to the challenge climate action, environment, resource efficiency and raw materials; and some to health, demographic change and wellbeing; while others belong to Europe in a changing world - inclusive, innovative and reflective societies. The 19th European Conference on Mathematics for Industry, ECMI2016, was held in Santiago de Compostela, Spain in June 2016. The proceedings of this conference include the plenary lectures, ECMI awards and special lectures, mini-symposia (including the description of each mini-symposium) and contributed talks. The ECMI conferences are organized by the European Consortium for Mathematics in Industry with the aim of promoting interaction between academy and industry, leading to innovation in both fields and providing unique opportunities to discuss the latest ideas, problems and methodologies, and contributing to the advancement of science and technology. They also encourage industrial sectors to propose challenging problems where mathematicians can provide insights and fresh perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to

promote the use of innovative mathematics in industry.

Commonwealth Universities Yearbook Jun 29 2022

Operations Research Oct 29 2019

Graph Theory and Applications Jun 25 2019 Graph Theory and Applications

Proof And Computation: Digitization In Mathematics, Computer Science And Philosophy Jul 31 2022 This book is for graduate students and researchers, introducing modern foundational research in mathematics, computer science, and philosophy from an interdisciplinary point of view. Its scope includes Predicative Foundations, Constructive Mathematics and Type Theory, Computation in Higher Types, Extraction of Programs from Proofs, and Algorithmic Aspects in Financial Mathematics. By filling the gap between (under-)graduate level textbooks and advanced research papers, the book gives a scholarly account of recent developments and emerging branches of the aforementioned fields. Contents: Proof and Computation (K Mainzer) Constructive Convex Programming (J Berger and G Svindland) Exploring Predicativity (L Crosilla) Constructive Functional Analysis: An Introduction (H Ishihara) Program Extraction (K Miyamoto) The Data Structures of the Lambda Terms (M Sato) Provable (and Unprovable) Computability (S Wainer) Introduction to Minlog (F Wiesnet) Readership: Graduate students, researchers, and professionals in Mathematics and Computer Science. Keywords: Proof Theory; Computability Theory; Program Extraction; Constructive Analysis; Predicativity Review: Key Features: This book gathers recent contributions of distinguished experts It makes emerging fields accessible to a wider audience, appealing to a broad readership with diverse backgrounds It fills a gap between (under-)graduate level textbooks and state-of-the-art research papers

Mathematical Methods in Interdisciplinary Sciences Sep 08 2020 Brings mathematics to bear on your real-world, scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real-life scientific and technological problems. The collection of chapters Dr. Snehashish Chakraverty has provided describe in detail how to bring mathematics, statistics, and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study. Graduate students, postgraduate students, researchers, and professors will all benefit significantly from the author's clear approach to applied mathematics. The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions. Subjects include: Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence. It concludes with examinations of various fields of application, like infectious diseases, autonomous car and monotone inclusion problems.

New Scientist Jul 27 2019 New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

Understanding and Enriching Problem Solving in Primary Mathematics Apr 27 2022 This up to date book is essential reading for all those teaching or training to teach primary mathematics. Problem solving is a key aspect of teaching and learning mathematics, but also an area where teachers and pupils often struggle. Set within the context of the new primary curriculum and drawing on research and practice, the book identifies the key knowledge and skills required in teaching and learning problem solving in mathematics, and examines how these and can be applied in the classroom. It explores the issues in depth while remaining straightforward and relevant, emphasises the enrichment of maths through problem-solving, and provides opportunities for teachers to reflect on and further develop their classroom practice.

Postgraduate UK study and funding guide Sep 20 2021 Features information on studying at Postgraduate level in the UK, what is involved, what opportunities there are, lists details £75 million of funding available to Postgraduate students.

Financial Engineering May 29 2022 FINANCIAL ENGINEERING Financial engineering is poised for a great shift in the years ahead. Everyone from investors and borrowers to regulators and legislators will need to determine what works, what doesn't, and where to go from here. Financial Engineering—part of the Robert W. Kolb Series in Finance—has been designed to help you do just this. Comprised of contributed chapters by distinguished experts from industry and academia, this reliable resource will help you focus on established activities in the field, developing trends and changes, as well as areas of opportunity. Divided into five comprehensive parts, Financial Engineering begins with an informative overview of the

discipline, chronicling its complete history and profiling potential career paths. From here, Part II quickly moves on to discuss the evolution of financial engineering in major markets—fixed income, foreign exchange, equities, commodities and credit—and offers important commentary on what has worked and what will change. Part III then examines a number of recent innovative applications of financial engineering that have made news over the past decade—such as the advent of securitized and structured products and highly quantitative trading strategies for both equities and fixed income. Thoughts on how risk management might be retooled to reflect what has been learned as a result of the recent financial crisis are also included. Part IV of the book is devoted entirely to case studies that present valuable lessons for active practitioners and academics. Several of the cases explore the risk that has instigated losses across multiple markets, including the global credit crisis. You'll gain in-depth insights from cases such as Countrywide, Société Générale, Barings, Long-Term Capital Management, the Florida Local Government Investment Pool, AIG, Merrill Lynch, and many more. The demand for specific and enterprise risk managers who can think outside the box will be substantial during this decade. Much of Part V presents new ways to be successful in an era that demands innovation on both sides of the balance sheet. Chapters that touch upon this essential topic include Musings About Hedging; Operational Risk; and The No-Arbitrage Condition in Financial Engineering: Its Use and Mis-Use. This book is complemented by a companion website that includes details from the editors' survey of financial engineering programs around the globe, along with a glossary of key terms from the book. This practical guide puts financial engineering in perspective, and will give you a better idea of how it can be effectively utilized in real- world situations.

Generalized Convexity May 05 2020 Generalizations of the classical concept of a convex function have been proposed in various fields such as economics, management science, engineering, statistics and applied sciences during the second half of this century. In addition to new results in more established areas of generalized convexity, this book presents several important developments in recently emerging areas. Also, a number of interesting applications are reported.

Differential and Integral Calculus Jan 25 2022 The classic introduction to the fundamentals of calculus Richard Courant's classic text Differential and Integral Calculus is an essential text for those preparing for a career in physics or applied math. Volume 1 introduces the foundational concepts of "function" and "limit", and offers detailed explanations that illustrate the "why" as well as the "how". Comprehensive coverage of the basics of integrals and differentials includes their applications as well as clearly-defined techniques and essential theorems. Multiple appendices provide supplementary explanation and author notes, as well as solutions and hints for all in-text problems.

British Qualifications 2018 Apr 03 2020 Now in its 48th edition, British Qualifications 2018 is the definitive one-volume guide to every qualification on offer in the United Kingdom. With an equal focus on both academic and vocational studies, this essential guide has full details of all institutions and organizations involved in the provision of further and higher education and is an essential reference source for careers advisors, students and employers. It also includes a comprehensive and up-to-date description of the structure of further and higher education in the UK. British Qualifications 2018 has been fully updated and includes valuable information on awards provided by over 350 professional institutions and accrediting bodies, details of academic universities and colleges and a full description of the current framework of academic and vocational education. It is compiled and checked annually to ensure accuracy of information.

A Handbook of Jobs and Careers Jul 07 2020 The purpose of this book is to introduce you to the wide open world of opportunities after for students who are still at school and for young adults who are in colleges or in training for further education and professional skills.

Modeling, Simulation, and Optimization Aug 20 2021 This book features selected contributions in the areas of modeling, simulation, and optimization. The contributors discusses requirements in problem solving for modeling, simulation, and optimization. Modeling, simulation, and optimization have increased in demand in exponential ways and how potential solutions might be reached. They describe how new technologies in computing and engineering have reduced the dimension of data coverage worldwide, and how recent inventions in information and communication technology (ICT) have inched towards reducing the gaps and coverage of domains globally. The chapters cover how the digging of information in a large data and soft-computing techniques have contributed to a strength in prediction and analysis, for decision making in computer science, technology, management, social computing, green computing, and telecom. The book provides an insightful reference to the researchers in the fields of engineering and

computer science. Researchers, academics, and professionals will benefit from this volume. Features selected expanded papers in modeling, simulation, and optimization from COMPSE 2016; Includes research into soft computing and its application in engineering and technology; Presents contributions from global experts in academia and industry in modeling, simulation, and optimization.

Improving Primary Mathematics Education, Teaching and Learning Mar 15 2021 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource-constrained contexts. It builds on two large numeracy projects within South Africa which speak to broader, global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed. Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education.

Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012 Sep 28 2019 Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012 contains more than 2,900 graduate programs in 59 disciplines-including agriculture and food sciences, astronomy and astrophysics, chemistry, physics, mathematics, environmental sciences and management, natural resources, marine sciences, and more. This guide is part of Peterson's six-volume Annual Guides to Graduate Study, the only annually updated reference work of its kind, provides wide-ranging information on the graduate and professional programs offered by U.S.-accredited colleges and universities in the United States and throughout the world. Informative data profiles for more than 2,900 graduate programs in 59 disciplines, including facts and figures on accreditation, degree requirements, application deadlines and contact information, financial support, faculty, and student body profiles. Two-page in-depth descriptions, written by featured institutions, offer complete details on specific graduate programs, schools, or departments as well as information on faculty research and the college or university. Expert advice on the admissions process, financial support, and accrediting agencies. Comprehensive directories list programs in this volume, as well as others in the graduate series. Up-to-date appendixes list institutional changes since the last addition along with abbreviations used in the guide

How Chinese Teach Mathematics Feb 11 2021 This unique book represents another concerted research effort concerning Chinese mathematics education, with contributions from the world's leading scholars and most active researchers. The book presents the latest original research work with a particular focus on the "teaching" side of Chinese mathematics education to a wide international audience. There are mainly three sections in the book. The first section introduces readers to a historical and contemporary perspective, respectively, on traditional mathematical teaching in ancient China and on how modern Chinese mathematics teachers teach and pursue their pre-service training and in-service professional development. The second section presents studies investigating a wide range of issues at both the macro- and micro-levels on how Chinese mathematics teachers teach mathematics. The third section focuses on Chinese mathematics teachers, investigating issues about their knowledge, belief, teacher training and professional development. Like its predecessor, "How Chinese Learn Mathematics: Perspectives from Insiders," this book is a must for educational researchers, practitioners, and policy-makers who are interested in knowing more about mathematics teaching, teachers, teacher education and professional development concerning Chinese teachers and learners. Contents: Focusing on Chinese Mathematics Teaching, Teachers and Teacher Education: An Introduction "Historical and Contemporary Perspectives: "The Wisdom of Traditional Mathematical Teaching in China "(DAI Qin and CHEUNG Ka Luen)" How Chinese Teachers Teach Mathematics and Pursue Professional Development: Perspectives from Contemporary International Research "(FAN Lianghuo, MIAO Zhenzhen and MOK Ah Chee Ida)" "Understanding the Chinese Ways of Teaching Mathematics: " Mathematics Teaching in a Chinese Classroom: A Hybrid-Model Analysis of Opportunities for Students' Learning "(HUANG Rongjin, MILLER L Diane and TZUR Ron)" Achieving Coherence in the Mathematics Classroom: Toward a Framework for Examining Instructional Coherence "(WANG Tao, CAI Jinfa and HWANG Stephen)" Elementary School Teachers' Instruction in Measurement: Cases of Classroom Teaching of Spatial Measurement in Taiwan "(HUANG Hsin-Mei E)" Pedagogical and Curriculum Potentials of Homework: A Case Study about Geometric Proofs in Shanghai "(FANG Yanping)" Teaching Calculation of Time Intervals: Comparing Mathematics Competence of Students in Macau, Hong Kong and the Netherlands "(LI Titus Siu Pang)" Teaching Number Sense via Interactive Multimedia in a Primary School in Taiwan "(YANG Der-Ching, CHEN Pei-Chieh, TSAI Yi Fang and HSIEH Tien-Yu)" Teaching Geometrical Theorems in Grade 8 Using the

"Shen Tou" Method: A Case Study in Shanghai "(DING Liping, JONES Keith and ZHANG Dianzhou)"
Implementation of Objectives Based on the Curriculum Standards: A Case of Teaching Using Letter to Represent Number at a Chinese Primary School in Chinese Mainland "(HUANG Xingfeng, YANG Jinglei and LI Shiqi)" Chinese Project-based Classroom Practices: Promoting Students' Engagement in Mathematical Activities "(XU Binyan and ZHU Guangtian)" A Large-Scale Video Survey on Taiwanese Fourth-Grade Classrooms of Mathematical Teaching Behaviors "(LEE Yuan-Shun and LIN Fou-Lai)" Features of Exemplary Lessons under the Curriculum Reform in Chinese Mainland: A Study of Thirteen Elementary Mathematics Lessons "(MA Yunpeng and ZHAO Dongchen)" Qingpu Mathematics Teaching Reform and Its Impact on Student Learning "(GU Lingyuan, YANG Yudong and HE Zhenzhen)" "Chinese Mathematics Teachers, Teacher Educati

Mathematical Fluid Mechanics Mar 27 2022 This book aims to include various significant research topics of mathematical fluid mechanics having relevance or applications in engineering and applied sciences, covering the tools and techniques used for developing mathematical methods and modelling related to real-life situations.

Handbook of Universities Dec 24 2021 The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

The Academic Record of Science Students in the University of New Zealand Dec 12 2020

Machine Learning and Autonomous Systems Aug 08 2020 This book involves a collection of selected papers presented at International Conference on Machine Learning and Autonomous Systems (ICMLAS 2021), held in Tamil Nadu, India, during 24–25 September 2021. It includes novel and innovative work from experts, practitioners, scientists and decision-makers from academia and industry. It covers selected papers in the area of emerging modern mobile robotic systems and intelligent information systems and autonomous systems in agriculture, health care, education, military and industries.

Mathematics for Finance Jan 01 2020 This textbook contains the fundamentals for an undergraduate course in mathematical finance aimed primarily at students of mathematics. Assuming only a basic knowledge of probability and calculus, the material is presented in a mathematically rigorous and complete way. The book covers the time value of money, including the time structure of interest rates, bonds and stock valuation; derivative securities (futures, options), modelling in discrete time, pricing and hedging, and many other core topics. With numerous examples, problems and exercises, this book is ideally suited for independent study.

Algebraic Design Theory and Hadamard Matrices Sep 01 2022 This volume develops the depth and breadth of the mathematics underlying the construction and analysis of Hadamard matrices, and their use in the construction of combinatorial designs. At the same time, it pursues current research in their numerous applications in security and cryptography, quantum information, and communications. Bridges among diverse mathematical threads and extensive applications make this an invaluable source for understanding both the current state of the art and future directions. The existence of Hadamard matrices remains one of the most challenging open questions in combinatorics. Substantial progress on their existence has resulted from advances in algebraic design theory using deep connections with linear algebra, abstract algebra, finite geometry, number theory, and combinatorics. Hadamard matrices arise in a very diverse set of applications. Starting with applications in experimental design theory and the theory of error-correcting codes, they have found unexpected and important applications in cryptography, quantum information theory, communications, and networking.

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