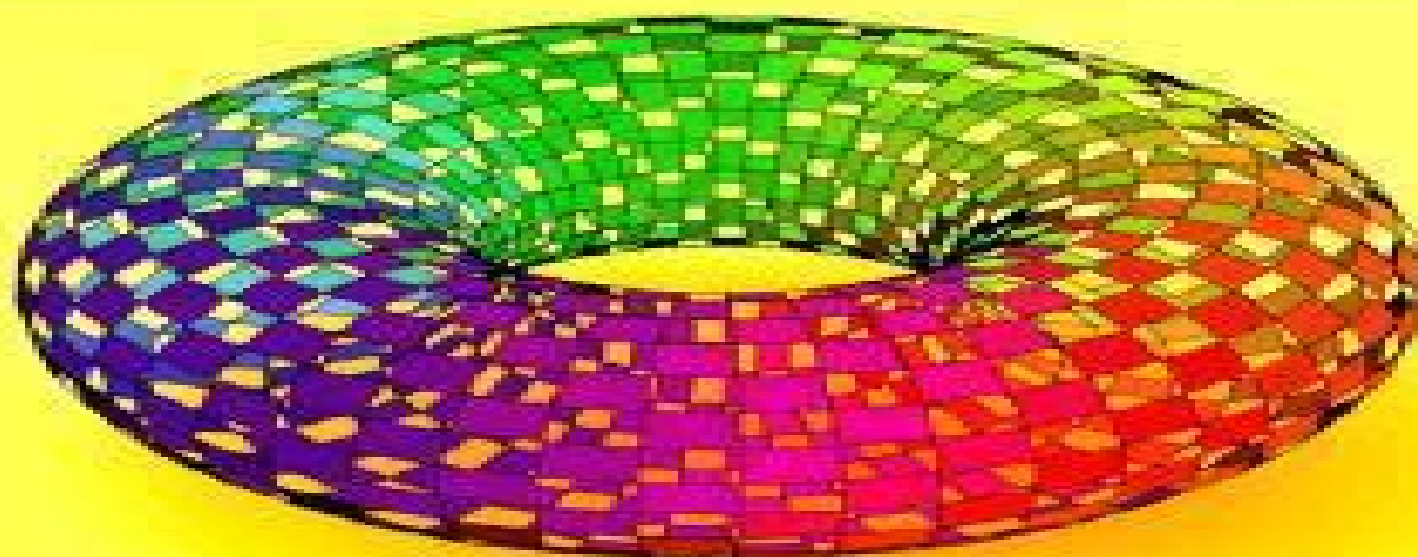


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Computational Financial Mathematics using MATHEMATICA® Srdjan Stojanovic, 2012-12-06 Given the explosion of interest in mathematical methods for solving problems in finance and trading a great deal of research and development is taking place in universities large brokerage firms and in the supporting trading software industry Mathematical advances have been made both analytically and numerically in finding practical solutions This book provides a comprehensive overview of existing and original material about what mathematics when allied with Mathematica can do for finance Sophisticated theories are presented systematically in a user friendly style and a powerful combination of mathematical rigor and Mathematica programming Three kinds of solution methods are emphasized symbolic numerical and Monte Carlo Nowadays only good personal computers are required to handle the symbolic and numerical methods that are developed in this book Key features No previous knowledge of Mathematica programming is required The symbolic numeric data management and graphic capabilities of Mathematica are fully utilized Monte Carlo solutions of scalar and multivariable SDEs are developed and utilized heavily in discussing trading issues such as Black Scholes hedging Black Scholes and Dupire PDEs are solved symbolically and numerically Fast numerical solutions to free boundary problems with details of their Mathematica realizations are provided Comprehensive study of optimal portfolio diversification including an original theory of optimal portfolio hedging under non Log Normal asset price dynamics is presented The book is designed for the academic community of instructors and students and most importantly will meet the everyday trading needs of quantitatively inclined professional and individual investors *A Crash Course in AIEEE Physics 2011* , **Math: a Crash Course** Brian/Morris Peet

Clegg, Peet Morris, 2019-07-30 It s a sad truth that math has the reputation of being difficult Part of the problem is that many of us simply don t speak the language To a mathematician an equation is a compact efficient way to put across a relationship that would be far less comprehensible in words But to many of us the merest sign of an x y or symbol is an impenetrable mess that our eyes bounce off This book provides an engaging overview of what math is and what it can do without having to solve simultaneous equations or prove geometric theorems far more of us might get the point of it It is divided into four chapters each covering a major developmental route in the topic from Arithmetic Numbers to Geometry and from Algebra Calculus to Applied Mathematics *Mathematics for M.B.A* , *The Mathematics of Machine Learning* Maria Han Veiga, François Gaston Ged, 2024-05-20 This book is an introduction to machine learning with a strong focus on the mathematics behind the

standard algorithms and techniques in the field aimed at senior undergraduates and early graduate students of Mathematics. There is a focus on well known supervised machine learning algorithms detailing the existing theory to provide some theoretical guarantees featuring intuitive proofs and exposition of the material in a concise and precise manner. A broad set of topics is covered giving an overview of the field. A summary of the topics covered is: statistical learning theory, approximation theory, linear models, kernel methods, Gaussian processes, deep neural networks, ensemble methods, and unsupervised learning techniques such as clustering and dimensionality reduction. This book is suited for students who are interested in entering the field by preparing them to master the standard tools in Machine Learning. The reader will be equipped to understand the main theoretical questions of the current research and to engage with the field.

Mathematics and Statistics for the Quantitative Sciences Matthew Betti, 2022-12-12

Mathematics and Statistics for the Quantitative Sciences was born from a radical reimagining of first year mathematics. While calculus is often seen as the foundational mathematics required for any scientist, this often leads to mathematics being seen as some ultimately useless hoop that needs to be jumped through in order to do what someone really wants to do. This sentiment is everywhere at every level of education. It even shows up in how people stereotype mathematics courses. What this book aims to do, therefore, is serve as a foundational text in everyday mathematics in a way that is both engaging and practically useful. The book seeks to teach the mathematics needed to start to answer fundamental questions like why or how. Why do we only need to take census data once every few years? How do we determine the optimal dosing of a new pharmaceutical without killing people in the process? Or more generally, what does it even mean to be average? Or what does it mean for two things to actually be different? These questions require a different way of thinking, a quantitative intuition that goes beyond rote memorization and equips readers to meet the quantitative challenges inherent in any applied discipline.

Features: Draws from a diverse range of fields to make the applications as inclusive as possible. Would be ideal as a foundational mathematical and statistical textbook for any applied quantitative science course.

Machine Learning In Pure Mathematics And Theoretical Physics Yang-hui He, 2023-06-21

The juxtaposition of machine learning and pure mathematics and theoretical physics may first appear as contradictory in terms. The rigours of proofs and derivations in the latter seem to reside in a different world from the randomness of data and statistics in the former. Yet an often under appreciated component of mathematical discovery, typically not presented in a final draft, is experimentation both with ideas and with mathematical data. Think of the teenage Gauss who conjectured the Prime Number Theorem by plotting the prime counting function many decades before complex analysis was formalized to offer a proof. Can modern technology in part mimic Gauss's intuition? The past five years saw an explosion of activity in using AI to assist the human mind in uncovering new mathematics, finding patterns, accelerating computations, and raising conjectures via the machine learning of pure noiseless data. The aim of this book, a first of its kind, is to collect research and survey articles from experts in this emerging dialogue between theoretical mathematics and machine

learning It does not dwell on the well known multitude of mathematical techniques in deep learning but focuses on the reverse relationship how machine learning helps with mathematics Taking a panoramic approach the topics range from combinatorics to number theory and from geometry to quantum field theory and string theory Aimed at PhD students as well as seasoned researchers each self contained chapter offers a glimpse of an exciting future of this symbiosis *The Best Writing on Mathematics 2014* Mircea Pitici, 2015 An anthology of the year's finest writing on mathematics from around the world featuring promising new voices as well as some of the foremost names in mathematics **Teacher Shortage in Science and Mathematics** John Lawrence Taylor, 1984 *Proceedings of the Estonian Academy of Sciences, Physics and Mathematics*, 2001-12 Mathematics and Computer Science, Volume 1 Sharmistha Ghosh, M. Niranjanamurthy, Krishanu Deyasi, Biswadip Basu Mallik, Santanu Das, 2023-07-19 MATHEMATICS AND COMPUTER SCIENCE This first volume in a new multi volume set gives readers the basic concepts and applications for diverse ideas and innovations in the field of computing together with its growing interactions with mathematics This new edited volume from Wiley Scrivener is the first of its kind to present scientific and technological innovations by leading academicians eminent researchers and experts around the world in the areas of mathematical sciences and computing The chapters focus on recent advances in computer science and mathematics and where the two intersect to create value for end users through practical applications of the theory The chapters herein cover scientific advancements across a diversified spectrum that includes differential as well as integral equations with applications computational fluid dynamics nanofluids network theory and optimization control theory machine learning and artificial intelligence big data analytics Internet of Things cryptography fuzzy automata statistics and many more Readers of this book will get access to diverse ideas and innovations in the field of computing together with its growing interactions in various fields of mathematics Whether for the engineer scientist student academic or other industry professional this is a must have for any library Ultrafilters across Mathematics Vitaly Bergelson, 2010 This volume originated from the International Congress ULTRAMATH Applications of Ultrafilters and Ultraproducts in Mathematics which was held in Pisa Italy from June 1-7 2008 The volume aims to present the state of the art of applications in the whole spectrum of mathematics which are grounded on the use of ultrafilters and ultraproducts It contains two general surveys on ultrafilters in set theory and on the ultraproduct construction as well as papers that cover additive and combinatorial number theory nonstandard methods and stochastic differential equations measure theory dynamics Ramsey theory algebra in the space of ultrafilters and large cardinals The papers are intended to be accessible and interesting for mathematicians who are not experts on ultrafilters and ultraproducts Greater prominence has been given to results that can be formulated and presented in non special terms and be in principle understandable by any mathematician and to those results that connect different areas of mathematics revealing new facets of known important topics This volume originated from the International Congress ULTRAMATH Applications of Ultrafilters and Ultraproducts in Mathematics which was held in Pisa Italy from June

1 7 2008 The volume aims to present the state of the art of applications in the whole spectrum of mathematics which are grounded on the use of ultrafilters and ultraproducts It contains two general surveys on ultrafilters in set theory and on the ultraproduct construction as well as papers that cover additive and combinatorial number theory nonstandard methods and stochastic differential equations measure theory dynamics Ramsey theory algebra in the space of ultrafilters and large cardinals The papers are intended to be accessible and interesting for mathematicians who are not experts on ultrafilters and ultraproducts Greater prominence has been given to results that can be formulated and presented in non special terms and be in principle understandable by any mathematician and to those results that connect different areas of mathematics revealing new facets of known important topics

Ontological Mathematics: How to Create the Universe Mike Hockney, This book explains how the entire universe can be created using just two ingredients nothing at all and the Principle of Sufficient Reason PSR Why would you need anything else Nothing else could do the job Existence believe it or not is just dimensionless mathematical points moving according to the PSR Come and find out how the PSR accomplishes it

A Guide to the Literature on Semirings and their Applications in Mathematics and Information Sciences K. Glazek, 2013-06-29 This volume presents a short guide to the extensive literature concerning semirings along with a complete bibliography The literature has been created over many years in variety of languages by authors representing different schools of mathematics and working in various related fields In many instances the terminology used is not universal which further compounds the difficulty of locating pertinent sources even in this age of the Internet and electronic dissemination of research results So far there has been no single reference that could guide the interested scholar or student to the relevant publications This book is an attempt to fill this gap My interest in the theory of semirings began in the early sixties when together with Bogdan W glorz I tried to investigate some algebraic aspects of compactifications of topological spaces semirings of semicontinuous functions and the general ideal theory for special semirings Unfortunately local algebraists in Poland told me at that time that there was nothing interesting in investigating semiring theory because ring theory was still being developed However some time later we became aware of some similar investigations having already been done The theory of semirings has remained my first love ever since and I have been interested in the results in this field that have been appearing in literature even though I have not been active in this area myself

Engineering Mathematics and Artificial Intelligence Herb Kunze, Davide La Torre, Adam Riccoboni, Manuel Ruiz Galán, 2023-07-26 The fields of Artificial Intelligence AI and Machine Learning ML have grown dramatically in recent years with an increasingly impressive spectrum of successful applications This book represents a key reference for anybody interested in the intersection between mathematics and AI ML and provides an overview of the current research streams Engineering Mathematics and Artificial Intelligence Foundations Methods and Applications discusses the theory behind ML and shows how mathematics can be used in AI The book illustrates how to improve existing algorithms by using advanced mathematics

and offers cutting edge AI technologies The book goes on to discuss how ML can support mathematical modeling and how to simulate data by using artificial neural networks Future integration between ML and complex mathematical techniques is also highlighted within the book This book is written for researchers practitioners engineers and AI consultants

Lipman Bers, a Life in Mathematics Linda Keen, Irwin Kra, Rubí E. Rodríguez, 2015-09-15 The book is part biography and part collection of mathematical essays that gives the reader a perspective on the evolution of an interesting mathematical life It is all about Lipman Bers a giant in the mathematical world who lived in turbulent and exciting times It captures the essence of his mathematics a development and transition from applied mathematics to complex analysis quasiconformal mappings and moduli of Riemann surfaces and the essence of his personality a progression from a young revolutionary refugee to an elder statesman in the world of mathematics and a fighter for global human rights and the end of political torture The book contains autobiographical material and short reprints of his work The main content is in the exposition of his research contributions sometimes with novel points of view by students grand students and colleagues The research described was fundamental to the growth of a central part of 20th century mathematics that now in the 21st century is in a healthy state with much current interest and activity The addition of personal recollections professional tributes and photographs yields a picture of a man his personal and professional family and his time

HISTORY & MATHEMATICS Leonid Grinin, Andrey Korotayev, The present Yearbook which is the eighth in the series is subtitled Investigating Past and Future It is devoted to three problems the analysis of the aspects of past and present in the light of formal methods singularity i e forthcoming abrupt shift in development the approach or even presence of which we already feel the aspects of the cosmic future of human race This issue consists of four sections I History Technologies Politics and Mathematics includes five articles on different directions of factual or theoretical content history technology politics and studies covering past present and future II Singularity includes two contributions and is devoted to a rather interesting phenomenon of singularity They suggest that indeed the hyperbolic planetary evolutionary trend observed since the origins of life on the Earth cannot continue beyond the forthcoming singularity whereas the post singular evolutionary trend should be qualitatively different from what has been observed before III Beyond the Earth also consists of two very different articles but they are united by their interest in the future of human race in terms of their interaction with the space IV Reviews and Notes We hope that this issue will be interesting and useful both for historians and mathematicians as well as for all those dealing with various social and natural sciences

Mathematics of Program Construction Jeremy Gibbons, Pablo Nogueira, 2012-06-21 This book constitutes the refereed proceedings of the 11th International Conference on Mathematics of Program Construction MPC 2012 held in Madrid Spain in June 2012 The 13 revised full papers presented together with three invited talks were carefully reviewed and selected from 27 submissions The papers are organized in topical sections on security and information flow synchronous and real time systems algorithms and games program calculi tool support algebras and datatypes and categorical functional

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