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XPF3G7 - CARPENTER GILLIAN

"Presents practices and routines designed to support and nourish teachers as they prepare and present a meaningful year of mathematics instruction for fifth-grade mathematicians. Offers activities, lessons, and narration that can be easily adapted or adjusted to fit the particular needs of the students or the requirements of a prescribed curriculum"--

England's school system performs below its potential and can improve significantly. This white paper outlines action designed to: tackle the weaknesses in the system; strengthen the status of teachers and teaching; reinforce the standards set by the curriculum and qualifications; give schools back the freedom to determine their own development; make schools more accountable to parents, and help them to learn more quickly and systematically from good practice elsewhere; narrow the gap in attainment between rich and poor. The quality of teachers and teaching is the most important factor in determining how well children do. The Government will continue to raise the quality of new entrants to the profession, reform initial teacher training, develop a network of "teaching schools" to lead training and development, and reduce the bureaucratic burden on schools. Teachers will be given more powers to control bad behaviour. The National Curriculum will be reviewed, specifying a tighter model of knowledge of core subjects so that the Curriculum becomes a benchmark against which school can be judged. Schools will be given more freedom and autonomy, the Academies programme extended and parents will be able to set up "Free Schools" to meet parent demand. Accountability for pupil performance is critical, and much more information will be available to aid understanding of a school's performance. School improvement will be the responsibility of schools, not central government. Funding of schools needs to be fairer and more transparent, and there will be a Pupil Premium to target resources on the most deprived pupils.

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Statistical methods based on the center of Mass of the sample; Statistical methods based on the moments of inertia of the sample.

Metaheuristics have been a very active research topic for more than two decades. During this time many new metaheuristic strategies have been devised, they have been experimentally tested and improved on challenging benchmark problems, and they have proven to be important tools for tackling optimization tasks in a large number of practical applications. In other words, metaheuristics are nowadays established as one of the main search paradigms for tackling computationally hard problems. Still, there are a large number of research challenges in the area of metaheuristics. These challenges range from more fundamental questions on theoretical properties and performance guarantees, empirical algorithm analysis, the effective configuration of metaheuristic algorithms, approaches to combine metaheuristics with other algorithmic techniques, towards extending the available techniques to tackle ever more challenging problems. This edited volume grew out of the contributions presented at the ninth Metaheuristics International Conference that was held in Udine, Italy, 25-28 July 2011. The conference comprised 117 presentations of peer-reviewed contributions and 3 invited talks, and it has been attended by 169 delegates. The chapters that are collected in this book exemplify contributions to several of the research directions outlined above.

Provides guidelines and strategies for success that will take teachers far beyond the gauge of survival into the realm of confidence, focus, effectiveness, success, and professionalism.

Diese Einführung in die Theorie der linearen Codes behandelt besonders ausführlich zyklische Codes. Daneben liegt ein Schwerpunkt auf computerunterstützten Methoden, insbesondere für die Bestimmung der Minimaldistanz linearer Codes, für die Abzählung der Isometrieklassen linearer Codes sowie Blockcodes und für die Erzeugung von Repräsentantensystemen dieser Klassen.

This book collects select papers presented at the “International Conference on Mathematical Analysis and Application in Modeling,” held at Jadavpur University, Kolkata, India, on 9–12 January 2018. It discusses new results in cutting-edge areas of several branches of mathematics and applications, including analysis, topology, dynamical systems (nonlinear, topological), mathematical modeling, optimization and mathematical biology. The conference has emerged as a powerful forum, bringing together leading academics, industry experts and researchers, and offering them a venue to discuss, interact and collaborate in order to stimulate the advancement of mathematics and its industrial applications.

This proceedings set contains 85 selected full papers presented at the 3rd International Conference on Modelling, Computation and Optimization in Information Systems and Management Sciences - MCO 2015, held on May 11–13, 2015 at Lorraine University, France. The present part I of the 2 volume set includes articles devoted to Combinatorial optimization and applications, DC programming and DCA: thirty years of Developments, Dynamic Optimization, Modelling and Optimization in financial engineering, Multiobjective programming, Numerical Optimization, Spline Approximation and Optimization, as well as Variational Principles and Applications.

This book contains articles on stochastic processes (stochastic calculus and Malliavin calculus, functionals of Brownian motions and Levy processes, stochastic control and optimization problems, stochastic numerics, and so on) and their applications to problems in mathematical finance. Examples of topics are applications of Malliavin calculus and numerical analysis to a new simulation scheme for calculating the price of financial derivatives, applications of the asymptotic expansion method in Malliavin calculus to financial problems, semimartingale decompositions under an enlargement of filtrations in connection with insider problems, and the problem of transaction costs in connection with stochastic control and optimization problems.

Despite great progress around the world in getting more kids into schools, too many leave without even the most basic skills. In India’s rural Andhra Pradesh, for instance, only about one in twenty children in fifth grade can perform basic arithmetic. The problem is that schooling is not the same as learning. In The Rebirth of Education, Lant Pritchett uses two metaphors from nature to explain why. The first draws on Ori Brafman and Rod Beckstrom’s book about the difference between centralized and decentralized organizations, The Starfish and the Spider. Schools systems tend be centralized and suffer from the limitations inherent in top-down designs. The second metaphor is the concept of isomorphic mimicry. Pritchett argues that many developing countries superficially imitate systems that were successful in other nations— much as a nonpoisonous snake mimics the look of a poisonous one. Pritchett argues that the solution is to allow functional systems to evolve locally out of an environment pressured for success. Such an ecosystem needs to be open to variety and experimentation, locally operated, and flexibly financed. The only main cost is ceding control; the reward would be the rebirth of education suited for today’s world.

Since the early decades of the last century, some eminent European scientists have contributed to the creation of a new perspective of our planet Earth. Some outstanding scientific articles were published in the journal Geologische Rundschau (now International Journal of Earth Sciences), mostly in German. These milestones of geoscientific research are available in English for the first time and are presented in this volume. Famous authors include for example Alfred Wegener, a pioneer of modern geology, Gustav Steinmann, Alexander Du Toit, Wolfgang Schott, Hans Cloos and Carl W. Correns. The reader will find a wealth of information about how new insights in specific fields have influenced the development of geoscientific research.

Hardbound. The Handbook of Finance is a primary reference work for financial economics and financial modeling students, faculty and practitioners. The expository treatments are suitable for masters and PhD students, with discussions leading from first principles to current research, with reference to important research works in the area. The Handbook is intended to be a synopsis of the current state of various aspects of the theory of financial economics and its application to important financial problems. The coverage consists of thirty-three chapters written by leading experts in the field. The contributions are in two broad categories: capital markets and corporate finance.

This innovative new handbook offers a comprehensive overview of the ways in which domestic education policy is framed and influenced by global institutions and actors. Surveys current debates about the role of education in a global polity, highlights key transnational policy actors, accessibly introduces research methodologies, and outlines global agendas for education reform Includes contributions from an international cast of established and emerging scholars at the forefront of the field thoughtfully edited and organized by a team of world-renowned global education policy experts Each section features a thorough introduction designed to facilitate readers’ understanding of the subsequent material and highlight links to interdisciplinary global policy scholarship Written in an accessible and engaging style that will appeal to domestic and international policy practitioners, social scientists, and education scholars alike

If you've ever questioned how to make math stations work, you'll find this photo-filled, idea-packed resource invaluable. This book extends Debbie Diller's best-selling work on literacy work stations and classroom design to the field of mathematics. In Math Work Stations you'll find ideas to help children develop conceptual understanding and skills, use math vocabulary as they talk about their mathematical thinking, and connect big idea to meaningful independent exploration and practice. This book details how to set up, manage, and keep math stations going throughout the year. There's even a chapter devoted solely to organizing and using math manipulatives. Each chapter includes: key concepts based on NCTM and state math standards; math vocabulary resources and literature links; suggested materials to include at each station for the corresponding math content strand; ideas for modeling, troubleshooting, differentiating, and assessment; and reflection questions for professional development. Throughout the book, Debbie has included hundreds of colored photos showing math work stations in action from a variety of classrooms in which she has worked. Charts, reproducible forms, and math work stations icons are included to provide everything you'll need to get started with stations in your classroom right away.

Vols. for 1980- issued in three parts: Series, Authors, and Titles.

This book develops the mathematical theory of linear adaptive filters with finite impulse response. Examples and computer experiment applications illustrate the theory and principles. The second edition has also been restructured with an introduction followed by four parts: discrete-time wide-sense station stochastic process; linear optimum filtering; linear FIR adaptive filtering; limitations, extensions and discussions. on blind deconvolution, new appendix material on complex variables and regulation.

Contains a series of articles dedicated to Geof Watson, who has made wide-ranging contributions to statistics, mostly stimulated by scientific problems. His contributions to directional data analysis, statistical biology, time series, etc., are well established. This volume reflects the scope of Dr. Watson's interests in many different subject areas and the overviews presented are about contributions that statistics are making or might make to these areas.

This book is a collection of thoroughly refereed papers presented at the 25th IFIP TC 7 Conference on System Modeling and Optimization, held in Dresden, Germany, in September 2011. The 55 revised papers were carefully selected from numerous submissions. They are organized in the following topical sections: control of distributed parameter systems; stochastic optimization and control; stabilization, feedback, and model predictive control; flow control; shape and structural optimization; and applications and control of lumped parameter systems.

This book contains 17 articles on stochastic processes (stochastic calculus and Malliavin calculus, functionals of Brownian motions and Lévy processes, stochastic control and optimization problems, stochastic numerics, and so on) and their applications to problems in mathematical finance. The proceedings have been selected for coverage in: • Index to Scientific & Technical Proceedings® (ISTP® / ISI Proceedings) • Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings) • Index to Social Sciences & Humanities Proceedings® (ISSHP® / ISI Proceedings) • Index to Social Sciences & Humanities Proceedings (ISSHP CDROM version / ISI Proceedings) • CC Proceedings — Engineering & Physical Sciences Contents:Enlargement of Filtrations and Models for

Insider Trading (A Kohatsu-Higa)Variational Equality and Portfolio Optimization for Price Processes with Jumps (H Kunita)A New Simulation Method of Diffusion Processes Applied to Finance (S Kusuoka & S Ninomiya)Risky Fraction Processes and Problems with Transaction Costs (H Nagai)A Benchmark Framework for Risk Management (E Platen)On Dufresne's Perpetuity, Translated and Reflected (P Salminen & M Yor)Some Problems Related to the Black-Scholes Type Security Markets (J Yong)and other papers Readership: Graduate students and researchers in the fields of stochastic processes and mathematical finance. Keywords:Stochastic Processes;Stochastic Differential Equations;Malliavin Calculus;Stochastic Control and Optimization;Functionals of Brownian Motions and LÃ©vy Processes;Stochastic Models of Financial Market;Derivative Pricing;Hedging Problem

Conceived as a series of more or less autonomous essays, the present book critically exposes the initial developments of continuum thermo-mechanics in a post Newtonian period extending from the creative works of the Bernoullis to the First World war, i.e., roughly during first the “Age of reason” and next the “Birth of the modern world”. The emphasis is rightly placed on the original contributions from the “Continental” scientists (the Bernoulli family, Euler, d’Alembert, Lagrange, Cauchy, Piola, Duhamel, Neumann, Clebsch, Kirchhoff, Helmholtz, Saint-Venant, Boussinesq, the Cosserat brothers, Caratheodory) in competition with their British peers (Green, Kelvin, Stokes, Maxwell, Rayleigh, Love,..). It underlines the main breakthroughs as well as the secondary ones. It highlights the role of scientists who left essential prints in this history of scientific ideas. The book shows how the formidable developments that blossomed in the twentieth century (and perused in a previous book of the author in the same Springer Series: “Continuum Mechanics through the Twentieth Century”, Springer 2013) found rich compost in the constructive foundational achievements of the eighteenth and nineteenth centuries. The pre-WWI situation is well summarized by a thorough analysis of treatises (Appell, Hellinger) published at that time. English translations by the author of most critical texts in French or German are given to the benefit of the readers.

In financial and actuarial modeling and other areas of application, stochastic differential equations with jumps have been employed to describe the dynamics of various state variables. The numerical solution of such equations is more complex than that of those only driven by Wiener processes, described in Kloeden & Platen: Numerical Solution of Stochastic Differential Equations (1992). The present monograph builds on the above-mentioned work and provides an introduction to stochastic differential equations with jumps, in both theory and application, emphasizing the numerical methods needed to solve such equations. It presents many new results on higher-order methods for scenario and Monte Carlo simulation, including implicit, predictor corrector, extrapolation, Markov chain and variance reduction methods, stressing the importance of their numerical stability. Furthermore, it includes chapters on exact simulation, estimation and filtering. Besides serving as a basic text on quantitative methods, it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding. Finance is chosen as the area of application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance. Moreover, the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and insurance beyond the standard risk-neutral approach. It requires undergraduate background in mathematical or quantitative methods, is accessible to a broad readership, including those who are only seeking numerical recipes, and includes exercises that help the reader develop a deeper understanding of the underlying mathematics.

This proceedings book presents selected contributions from the XVIII Congress of APDIO (the Portuguese Association of Operational Research) held in Valença on June 28–30, 2017. Prepared by leading Portuguese and international researchers in the field of operations research, it covers a wide range of complex real-world applications of operations research methods using recent theoretical techniques, in order to narrow the gap between academic research and practical applications. Of particular interest are the applications of, nonlinear and mixed-integer programming, data envelopment analysis, clustering techniques, hybrid heuristics, supply chain management, and lot sizing and job scheduling problems. In most chapters, the problems, methods and methodologies described are complemented by supporting figures, tables and algorithms. The XVIII Congress of APDIO marked the 18th installment of the regular biannual meetings of APDIO – the Portuguese Association of Operational Research. The meetings bring together researchers, scholars and practitioners, as well as MSc and PhD students, working in the field of operations research to present and discuss their latest works. The main theme of the latest meeting was Operational Research Pro Bono. Given the breadth of topics covered, the book offers a valuable resource for all researchers, students and practitioners interested in the latest trends in this field.