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Advances in Automation II Andrey A. Radionov, Vadim R. Gasiyarov, 2021-03-19 This book reports on innovative research and developments in automation Spanning a wide range of disciplines including communication engineering power engineering control engineering instrumentation signal processing and cybersecurity it focuses on methods and findings aimed at improving the control and monitoring of industrial and manufacturing processes as well as safety Based on the International Russian Automation Conference held on September 6 12 2020 in Sochi Russia the book provides academics and professionals with a timely overview of and extensive information on the state of the art in the field of automation and control systems and fosters new ideas and collaborations between groups in different countries Global and Local Regularity of Fourier Integral Operators on Weighted and Unweighted Spaces David Dos Santos Ferreira, Wolfgang Staubach, 2014-04-07 The authors investigate the global continuity on spaces with of Fourier integral operators with smooth and rough amplitudes and or phase functions subject to certain necessary non degeneracy conditions In this context they prove the optimal global boundedness result for Fourier integral operators with non degenerate phase functions and the most general smooth Hörmander class amplitudes i e those in with They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators on weighted spaces with and i e the Muckenhoupt weights for operators with rough and smooth amplitudes and phase functions satisfying a suitable rank condition *From Thomas to Train Conductor* Suzanne Jacobsen, 2013-07 In 2010 Kirin Jacobsen walks across the auditorium stage to receive his Bachelor's Degree For his parents Suzanne and John Jacobsen this moment is more than a milestone it is a celebration of Kirin's courage to overcome enormous obstacles Follow the Jacobsen family as Kirin grows from a boy who passionately loves Thomas the Tank Engine into a wise and wonderful young man who becomes a train conductor The Jacobsen family faces many challenges with medical professionals and educators demonstrating the extent of the advocacy required to support Kirin into adulthood Individuals with developmental differences and their families are constantly faced with ignorance complacency disrespect and misunderstanding The Jacobsens story is shared to encourage parents to advocate for their loved ones and inspire changes that will make a difference in the lives of these individuals *Pi: The Next Generation* David H. Bailey, Jonathan M. Borwein, 2016-07-19 This book contains a compendium of 25 papers published since the 1970s dealing with pi and associated topics of mathematics and computer science The collection begins with a Foreword by Bruce Berndt Each contribution is preceded by a brief summary of its content as well as a short key word list indicating how the content relates to others in the collection The volume includes articles on actual computations of pi articles on mathematical questions related to pi e g Is pi normal articles presenting new and often amazing techniques for computing digits of pi e g the BBP algorithm for pi which permits one to compute an arbitrary binary digit of pi without needing to compute any of the digits that came before papers presenting important fundamental mathematical results relating to pi and papers presenting new high tech techniques for

analyzing pi i e new graphical techniques that permit one to visually see if pi and other numbers are normal This volume is a companion to Pi A Source Book whose third edition released in 2004 The present collection begins with 2 papers from 1976 published by Eugene Salamin and Richard Brent which describe quadratically convergent algorithms for pi and other basic mathematical functions derived from some mathematical work of Gauss Bailey and Borwein hold that these two papers constitute the beginning of the modern era of computational mathematics This time period 1970s also corresponds with the introduction of high performance computer systems supercomputers which since that time have increased relentlessly in power by approximately a factor of 100 000 000 advancing roughly at the same rate as Moore s Law of semiconductor technology This book may be of interest to a wide range of mathematical readers some articles cover more advanced research questions suitable for active researchers in the field but several are highly accessible to undergraduate mathematics students

The Budget of the United States Government United States. Office of Management and Budget,2013 **Algebraic Combinatorics** Eiichi Bannai,Etsuko Bannai,Tatsuro Ito,Rie Tanaka,2021-02-22 Algebraic combinatorics is the study of combinatorial objects as an extension of the study of finite permutation groups or in other words group theory without groups In the spirit of Delsarte s theory this book studies combinatorial objects such as graphs codes designs etc in the general framework of association schemes providing a comprehensive overview of the theory as well as pointing out to extensions **On the Nodal Set of Solutions to a Class of Nonlocal Parabolic Equations** Alessandro Audrito,Susanna Terracini,2024-10-23 View the abstract

Advances in Emergency Treatment Research and Application: 2013 Edition ,2013-06-21 Advances in Emergency Treatment Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Resuscitation in a concise format The editors have built Advances in Emergency Treatment Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Resuscitation in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Emergency Treatment Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Optimization and Applications Nicholas N. Olenov,Yuri G. Evtushenko,Milojica Jaćimović,Michael Khachay,Vlasta Malkova,2021-11-04 This book constitutes the refereed proceedings of the 12th International Conference on Optimization and Applications OPTIMA 2021 held in Petrovac Montenegro in September October 2021 The 22 full and 3 short papers presented were carefully reviewed and selected from 63 submissions The papers are organized into the following topical sub headings mathematical programming global optimization discrete and combinatorial optimization optimal control

optimization and data analysis and game theory and mathematical economics **The Cadet**, 2011 **Budget of the U.S. Government, Appendix**, 2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies **The Philosophers and Mathematics** Hassan Tahiri, 2018-08-14 This book explores the unique relationship between two different approaches to understand the nature of knowledge reality and existence It collects essays that examine the distinctive historical relationship between mathematics and philosophy Readers learn what key philosophers throughout the ages thought about mathematics This includes both thinkers who recognized the relevance of mathematics to their own work as well as those who chose to completely ignore its many achievements The essays offer insight into the role that mathematics played in the formation of each included philosopher s doctrine as well as the impact its remarkable expansion had on the philosophical systems each erected Conversely the authors also highlight the ways that philosophy contributed to the growth and transformation of mathematics Throughout significant historical examples help to illustrate these points in a vivid way Mathematics has often been a favored interlocutor of philosophers and a major source of inspiration This book is the outcome of an international conference held in honor of Roshdi Rashed a renowned historian of mathematics It provides researchers students and interested readers with remarkable insights into the history of an important relationship throughout the ages **The Schenley Experiment** Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh s first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study

of desegregation magnet education and the changing nature and legacies of America's oldest public schools **Rhetoric in Neoliberalism** Kim Hong Nguyen, 2016-11-04 This volume examines and applies classical and contemporary concepts of rhetorical theory and criticism to the context of late capitalism Each contributor shows how discourse its subjects and power relations are irrevocably transformed by neoliberalism The collection analyzes a range of discourses and phenomena in neoliberalism including higher education reforms computational culture Occupy Wall Street protests the activism of Warren Buffett and the 9 11 Truth Movement Together these chapters explore the contemporary rhetorical production of homo economicus and the various ways in which neoliberalism has become a way of thinking orienting and organizing all aspects of life around economized metrics of individualized and individuated success This book will be of use to students and scholars crossing the fields of media and communication political science and sociology **Medial/Skeletal Linking Structures for Multi-Region Configurations** James Damon, Ellen Gasparovic, 2018-01-16 The authors consider a generic configuration of regions consisting of a collection of distinct compact regions in which may be either regions with smooth boundaries disjoint from the others or regions which meet on their piecewise smooth boundaries in a generic way They introduce a skeletal linking structure for the collection of regions which simultaneously captures the regions individual shapes and geometric properties as well as the positional geometry of the collection The linking structure extends in a minimal way the individual skeletal structures on each of the regions This allows the authors to significantly extend the mathematical methods introduced for single regions to the configuration of regions **The Double X Economy** Linda Scott, 2020-07-21 Winner of the 2020 Porchlight Business Book of the Year Award One of The Guardian's Best Books of 2020 Finalist for the 2020 Royal Science Society Book Prize and the 2020 Porchlight Business Book Awards Longlisted for the 2020 Financial Times husbands burning brides whose dowries have been spent men appropriating women's earnings and widows land banks discriminating against women applying for loans corporations paying women less than men men treating women as their intellectual inferiors due to primitive notions of female brain development governments depriving women of affordable childcare and so much more As Scott takes us from the streets of Accra where sex trafficking is widespread to American business schools where women are routinely patronized the pervasiveness of the Double X Economy becomes glaringly obvious But Scott believes that this rampant problem can be solved She proposes concrete actions and urges her readers to rise up and join the global movement for women's economic empowerment that is gaining momentum by the day Advances in Optimization and Applications Nicholas Olenov, Yuri Evtushenko, Milošica Jaćimović, Michael Khachay, Vlasta Malkova, Igor Pospelov, 2023-01-01 This book constitutes the refereed proceedings of the 13th International Conference on Advances in Optimization and Applications OPTIMA 2022 held in Petrovac Montenegro during September 26-30 2022 The 13 full papers included in this book were carefully reviewed and selected from 26 submissions They were organized in topical sections as follows mathematical programming global optimization discrete and combinatorial optimization optimization and data

analysis game theory and mathematical economics and applications

Interaction in Educational Domains Kirsi

Tirri, Elina Kuusisto, 2013-11-19 In this volume we take a holistic approach to education viewing human beings as lifelong learners who need interaction in all educational domains cognitive affective psychomotor to actualize their full potential The chapters are based on presentations given at the 2012 conference of the Finnish Educational Research Association FERA whose theme was Interaction in Educational Research Prof David Clarke from the University of Melbourne in Australia and the conference's keynote speaker opens our symposium with a discussion of international comparative research in educational interaction by constructing and concealing differences The chapters that follow arranged in three parts deal with interaction in cognitive affective and psychomotor domains In Part I theoretical and philosophical approaches to interaction are examined through ontological epistemological and semiotic perspectives Part II presents a series of empirical studies on educational interaction Together these show regional differences in cognitive and psychomotor learning outcomes the importance of academic emotions in learning cultural aspects in understanding the visual arts and interactive learning for gifted science students Part III introduces three programs that promote educational interaction one enhances teacher education with interdisciplinary integration another explores the benefits of Finnish Russian cooperation and a third uses musical concerts as an interactive tool for special education All of the chapters contribute to the current research and discussion on learning and interaction In this field inquiries need to be carried out in different learning domains and in various cultural contexts In particular cross cultural comparisons are useful in validating the findings of empirical studies and testing the culture dependent and culture invariant dimensions of educational interaction

What's Our Problem?

Tim Urban, 2023-02-21 From the creator of the wildly popular blog Wait But Why a fun and fascinating deep dive into what the hell is going on in our strange unprecedented modern times Between 2013 and 2016 Tim Urban became one of the world's most popular bloggers writing dozens of viral long form articles about everything from AI to colonizing Mars to procrastination Then he turned his attention to a new topic the society around him Why was everything such a mess Why was everyone acting like such a baby When did things get so tribal Why do humans do this stuff This massive topic sent Tim tumbling down his deepest rabbit hole yet through mountains of history evolutionary psychology political theory neuroscience and modern day political movements as he tried to figure out the answer to a simple question What's our problem Six years later he emerged from the hole holding this book What's Our Problem is a deep and expansive analysis of our modern times in the classic style of Wait But Why packed with original concepts sticky metaphors and 300 drawings The book provides an entirely new framework and language for thinking and talking about today's complex world Instead of focusing on the usual left center right horizontal political axis which is all about what we think the book introduces a vertical axis that explores how we think as individuals and as groups Readers will find themselves on a delightful and fascinating journey that will ultimately change the way they see the world around them Anyway he wanted to say a lot more about all of

this but there was a word limit on this book description so just go read the book [After the Education Wars](#) Andrea Gabor, 2018-06-12 The education wars have been demoralizing for teachers After the Education Wars helps us to see a better way forward Cathy N Davidson The New York Times Book Review After the Education Wars is an important book that points the way to genuine reform Diane Ravitch author of Reign of Error and The Death and Life of the Great American School System A bestselling business journalist critiques the top down approach of popular education reforms and profiles the unexpected success of schools embracing a nimbler more democratic entrepreneurialism In an entirely fresh take on school reform business journalist and bestselling author Andrea Gabor argues that Bill Gates Eli Broad and other leaders of the prevailing education reform movement have borrowed all the wrong lessons from the business world After the Education Wars explains how the market based measures and carrot and stick incentives informing today's reforms are out of sync with the nurturing culture that good schools foster and contrary to popular belief at odds with the best practices of thriving twenty first century companies as well These rich detailed stories of real reform in action illustrate how enduring change must be deeply collaborative and relentlessly focused on improvement from the grass roots up lessons also learned from both the open source software and quality movements The good news is that solutions born of this philosophy are all around us from Brockton Massachusetts where the state's once failing largest high school now sends most graduates to college to Leander Texas a large district where school improvement spurred by the ideas of quality guru W Edwards Deming has become a way of life A welcome exception to the doom and gloom canon of education reform After the Education Wars makes clear that what's needed is not more grand ideas but practical and informed ways to grow the best ones that are already transforming schools

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