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MEMORANDUM

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Maths Pmemo Nov 2013

Spencer Ackerman



Maths Pmemo Nov 2013:

Mechatronics and Robotics Marina Indri, Roberto Oboe, 2020-11-24 The term mechatronics was coined in 1969 merging mecha from mechanism and tronics from electronics to reflect the original idea at the basis of this discipline that is the integration of electrical and mechanical systems into a single device The spread of this term and of mechatronics itself has been growing in the years including new aspects and disciplines like control engineering computer engineering and communication information engineering Nowadays mechatronics has a well defined and fundamental role in strict relation with robotics Drawing a sharp border between mechatronics and robotics is impossible as they share many technologies and objectives Advanced robots could be defined as mechatronic devices equipped with a smart brain but there are also up to date mechatronic devices used in tight interaction with humans that are governed by smart architectures for example for safety purposes Aim of this book is to offer a wide overview of new research trends and challenges for both mechatronics and robotics through the contribution of researchers from different institutions providing their view on specific subjects they consider as hot topics in both fields with attention to new fields of application new challenges to the research communities and new technologies available The reader of this book will enjoy the various contributions as they have been prepared with actual applications in mind along a journey from advanced actuators and sensors to human robot interaction through robot control navigation planning and programming issues The book presents several state of the art solutions like multiple stage actuation to cope with conflicting specification of large motion spans ultra high accuracy model based control for high tech mechatronic systems modern approaches of software systems engineering to robotics and humanoids for human assistance The reader can also find new techniques in approaching the design of mechatronic systems in some possible industrial and service robotics scenarios with a particular attention for the interaction between humans and mechanisms **Mathematics**

And Its Teaching In The Southern Americas: With An Introduction By Ubiratan D'ambrosio Hector Rosario, Bruce R Vogeli, Patrick Scott, 2014-09-26 This anthology presents a comprehensive review of mathematics and its teaching in the following nations in South America Central America and the Caribbean Argentina Bolivia Brazil Chile Colombia Costa Rica Cuba Guyana Haiti Honduras Mexico Panama Paraguay Peru Puerto Rico Trinidad and Tobago and Venezuela The last summary of mathematics education encompassing countries from the Southern Americas appeared in 1966 Progress in the field during five decades has remained unexamined until now **Reign of Terror** Spencer Ackerman, 2022-08-09 A New York Times Critics Top Book of 2021 An impressive combination of diligence and verve deploying Ackerman's deep stores of knowledge as a national security journalist to full effect The result is a narrative of the last 20 years that is upsetting discerning and brilliantly argued The New York Times One of the most illuminating books to come out of the Trump era New York Magazine An examination of the profound impact that the War on Terror had in pushing American politics and society in an authoritarian direction For an entire generation at home and abroad the United States has waged an endless conflict known

as the War on Terror In addition to multiple ground wars the era pioneered drone strikes and industrial scale digital surveillance weakened the rule of law through indefinite detentions sanctioned torture and manipulated the truth about it all These conflicts have yielded neither peace nor victory but they have transformed America What began as the persecution of Muslims and immigrants has become a normalized feature of American politics and national security expanding the possibilities for applying similar or worse measures against other targets at home as the summer of 2020 showed A politically divided and economically destabilized country turned the War on Terror into a cultural and then a tribal struggle It began on the ideological frontiers of the Republican Party before expanding to conquer the GOP often with the acquiescence of the Democratic Party Today s nativist resurgence walked through a door opened by the 9 11 era And that door remains open Reign of Terror shows how these developments created an opportunity for American authoritarianism and gave rise to Donald Trump It shows that Barack Obama squandered an opportunity to dismantle the War on Terror after killing Osama bin Laden By the end of his tenure the war had metastasized into a bitter broader cultural struggle in search of a demagogue like Trump to lead it Reign of Terror is a pathbreaking and definitive union of journalism and intellectual history with the power to transform how America understands its national security policies and their catastrophic impact on civic life

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

The Most Important Year Suzanne Bouffard,2017-09-05 An eye

opening look inside pre K in America and what it will take to give all children the best start in school possible At the heart of this groundbreaking book are two urgent questions What do our young children need in the earliest years of school and how do we ensure that they all get it Cutting edge research has proven that early childhood education is crucial for all children to gain the academic and emotional skills they need to succeed later in life Children who attend quality pre K programs have a host of positive outcomes including better language literacy problem solving and math skills down the line and they have a leg up on what appears to be the most essential skill to develop at age four strong self control But even with this overwhelming evidence early childhood education is at a crossroads in America We know that children can and do benefit but we also know that too many of our littlest learners don t get that chance millions of parents can t find spots for their children or their preschoolers end up in poor quality programs With engrossing storytelling journalist Suzanne Bouffard takes us inside some of the country s best pre K classrooms to reveal the sometimes surprising ingredients that make them work and to understand why some programs are doing the opposite of what is best for children It also chronicles the stories of families and teachers from many backgrounds as they struggle to give their children a good start in school This book is a call to arms when we are at a crucial moment and perhaps on the verge of a missed opportunity We now have the means and the will to have universal pre kindergarten but we are also in grave danger of not getting it right

Bounded Littlewood Identities

Eric M. Rains,S. Ole Warnaar,2021-07-21 We describe a method based on the theory of Macdonald Koornwinder polynomials for proving bounded Littlewood identities Our approach provides an alternative to Macdonald s partial fraction technique and results in the first examples of bounded Littlewood identities for Macdonald polynomials These identities which take the form of decomposition formulas for Macdonald polynomials of type R/S in terms of ordinary Macdonald polynomials are q, t analogues of known branching formulas for characters of the symplectic orthogonal and special orthogonal groups In the classical limit our method implies that MacMahon s famous ex conjecture for the generating function of symmetric plane partitions in a box follows from the identification of $GL(n, \mathbb{R}) \times O(n)$ as a Gelfand pair As further applications we obtain combinatorial formulas for characters of affine Lie algebras Rogers Ramanujan identities for affine Lie algebras complementing recent results of Griffin et al and quadratic transformation formulas for Kaneko Macdonald type basic hypergeometric series

Irreducible Geometric Subgroups of Classical Algebraic Groups

Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V Let H be a closed subgroup of G and let W be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of W to H is irreducible In this paper the authors classify the triples of this form where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V

Near Soliton Evolution for Equivariant Schrodinger Maps in Two Spatial Dimensions Ioan Bejenaru,Daniel

Tataru,2014-03-05 The authors consider the Schrödinger Map equation in $2+1$ dimensions with values into $\mathbb{S}^2$ This

admits a lowest energy steady state Q namely the stereographic projection which extends to a two dimensional family of steady states by scaling and rotation The authors prove that Q is unstable in the energy space $\dot{H}^1$ However in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology $X \subset \dot{H}^1$

Mathematics of Wave Phenomena Willy Dörfler, Marlis Hochbruck, Dirk Hundertmark, Wolfgang Reichel, Andreas Rieder, Roland Schnaubelt, Birgit Schörkhuber, 2020-10-01 Wave phenomena are ubiquitous in nature Their mathematical modeling simulation and analysis lead to fascinating and challenging problems in both analysis and numerical mathematics These challenges and their impact on significant applications have inspired major results and methods about wave type equations in both fields of mathematics The Conference on Mathematics of Wave Phenomena 2018 held in Karlsruhe Germany was devoted to these topics and attracted internationally renowned experts from a broad range of fields These conference proceedings present new ideas results and techniques from this exciting research area *Digital Samaritans* Jim Ridolfo, 2015-09-16 *Digital Samaritans* explores rhetorical delivery and cultural sovereignty in the digital humanities The exigence for the book is rooted in a practical digital humanities project based on the digitization of manuscripts in diaspora for the Samaritan community the smallest religious ethnic group of 770 Samaritans split between Mount Gerizim in the Palestinian Authority and in Holon Israel Based on interviews with members of the Samaritan community and archival research *Digital Samaritans* explores what some Samaritans want from their diaspora of manuscripts and how their rhetorical goals and objectives relate to the contemporary existential and rhetorical situation of the Samaritans as a living breathing people How does the circulation of Samaritan manuscripts especially in digital environments relate to their rhetorical circumstances and future goals and objectives to communicate their unique cultural history and religious identity to their neighbors and the world *Digital Samaritans* takes up these questions and more as it presents a case for collaboration and engaged scholarship situated at the intersection of rhetorical studies and the digital humanities

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