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Canadian Journal of Physics
Algorithmic Decision Theory
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Bean Thirteen

This volume is a collection of ten papers, written by different authors and co-authors (listed in the order of the papers): F. Smarandache, Jun Ye, M. Shabir, M. Ali, M. Naz, F. Yuhua, A. A. Salama, S. Vladutescu, Y. Guo, A. Sengur, S. Broumi, P. Chi, and P. Liu. In first paper, the author proposed Neutrosophic Measure and neutrosophic Integral. Another Form of Correlation Coefficient between Single Valued Neutrosophic Sets and Multiple Attribute Decision-Making Method is proposed in the second paper. Soft Neutrosophic Group is studied in third paper. In fourth paper Neutrosophic Example in Physics is discussed. Similarly in fifth paper Filters via Neutrosophic Crisp Sets are discussed. In paper six, Communication vs. Information, an Axiomatic Neutrosophic Solution is presented by the authors. A Novel Image Segmentation Algorithm Based on Neutrosophic Filtering and Level

Set is given in seventh paper. Paper eight is about to Neutrosophic Crisp Points and Neutrosophic Crisp Ideals. In the next paper Several Similarity Measures of Neutrosophic Sets are discussed. The authors introduced An Extended TOPSIS Method for the Multiple Attribute Decision Making Problems Based on Interval Neutrosophic Sets in the last paper.

Research Trends in Mathematics Teacher Education

Earth now is dominated by both biogeophysical and anthropogenic processes, as represented in these two images from a simulation of aerosols. Dust (red) from the Sahara sweeps west across the Atlantic Ocean. Sea salt (blue) rises into the atmosphere from winds over the North Atlantic and from a tropical cyclone in the Indian Ocean. Organic and black carbon (green) from biomass burning is notable over the Amazon and Southeast Asia. Plumes of sulfate (white) from fossil fuel burning are particularly prominent over northeastern North America and East Asia. If present trends of dust emissions and fossil fuel burning continues in what we call the Anthropocene epoch, then we could experience high atmospheric CO₂ levels leading to unusual warming rarely experienced in Earth's history. This book focuses on human influences on land, ocean, and the atmosphere, to determine if human activities are operating within or beyond the safe zones of our planet's biological, chemical, and physical systems. Volume highlights include:

- Assessment of civic understanding of Earth and its future
- Understanding the role

of undergraduate geoscience research and community-driven research on the Anthropocene • Effective communication of science to a broader audience that would include the public, the K-12 science community, or populations underrepresented in the sciences • Public outreach on climate education, geoscience alliance, and scientific reasoning Future Earth is a valuable practical guide for scientists from all disciplines including geoscientists, museum curators, science educators, and public policy makers. This volume was made possible with the support of the National Science Foundation through the National Center for Earth-surface Dynamics (EAR-0120914) and the Future Earth Initiative (DRL-0741760). Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Modeling Decisions for Artificial Intelligence

This book constitutes the refereed proceedings of the 25th IFIP WG 6.1 International Conference on Testing Software and Systems, ICTSS 2013, held in Istanbul, Turkey, in November 2013. The 17 revised full papers presented together with 3 short papers were carefully selected from 68 submissions. The papers are organized in topical sections on model-based testing, testing timed and concurrent systems, test suite selection and effort estimation, tools and languages, and debugging.

Future Earth

This book constitutes the thoroughly refereed conference proceedings of the Third International Conference on Algorithmic Decision Theory, ADT 2013, held in November 2013 in Bruxelles, Belgium. The 33 revised full papers presented were carefully selected from more than 70 submissions, covering preferences in reasoning and decision making, uncertainty and robustness in decision making, multi-criteria decision analysis and optimization, collective decision making, learning and knowledge extraction for decision support.

Mathematical Combinatorics, Vol. 1/2013

Mathematics has maintained a surprising presence in popular media for over a century. In recent years, the movies Good Will Hunting, A Beautiful Mind, and Stand and Deliver, the stage plays Breaking the Code and Proof, the novella Flatland and the hugely successful television crime series NUMB3RS all weave mathematics prominently into their storylines. Less obvious but pivotal references to the subject appear in the blockbuster TV show Lost, the cult movie The Princess Bride, and even Tolstoy's War and Peace. In this collection of new essays, contributors consider the role of math in everything from films, baseball, crossword puzzles, fantasy role-playing games, and television shows to science fiction tales,

award-winning plays and classic works of literature. Revealing the broad range of intersections between mathematics and mainstream culture, this collection demonstrates that even “mass entertainment” can have a hidden depth.

Bulletin of Electrical Engineering and Informatics

Master modern web and network data modeling: both theory and applications. In *Web and Network Data Science*, a top faculty member of Northwestern University’s prestigious analytics program presents the first fully-integrated treatment of both the business and academic elements of web and network modeling for predictive analytics. Some books in this field focus either entirely on business issues (e.g., *Google Analytics and SEO*); others are strictly academic (covering topics such as sociology, complexity theory, ecology, applied physics, and economics). This text gives today’s managers and students what they really need: integrated coverage of concepts, principles, and theory in the context of real-world applications. Building on his pioneering *Web Analytics* course at Northwestern University, Thomas W. Miller covers usability testing, Web site performance, usage analysis, social media platforms, search engine optimization (SEO), and many other topics. He balances this practical coverage with accessible and up-to-date introductions to both social network analysis and network science, demonstrating how these disciplines can be used to solve real business problems.

CTET Paper 2 Science & Mathematics 12 Solved + 15 Practice Sets (Class 6 - 8 Teachers) 6th Edition

This book constitutes the proceedings of the 10th International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2013, held in Barcelona, Spain, in November 2013. The 24 papers presented in this volume were carefully reviewed and selected from 40 submissions. They deal with the theory and tools for modeling decisions, as well as applications that encompass decision making processes and information fusion techniques.

Canadian Journal of Physics

This book contains contributions presented at the IUTAM Symposium "Fracture Phenomena in Nature and Technology" held in Brescia, Italy, 1-5 July, 2012. The objective of the Symposium was fracture research, interpreted broadly to include new engineering and structural mechanics treatments of damage development and crack growth and also large-scale failure processes as exemplified by earthquake or landslide failures, ice shelf break-up and hydraulic fracturing (natural or for resource extraction or CO₂ sequestration), as well as small-scale rupture phenomena in materials physics including, e.g. inception of shear banding, void growth, adhesion and decohesion in contact and friction, crystal dislocation

processes and atomic/electronic scale treatment of brittle crack tips and fundamental cohesive properties. Special emphasis was given to multiscale fracture description and new scale-bridging formulations capable to substantiate recent experiments and tailored to become the basis for innovative computational algorithms.

Algorithmic Decision Theory

A Mathematics Course for Political and Social Research

This book constitutes the refereed proceedings of the 8th Brazilian Symposium on Bioinformatics, BSB 2013, held in Recife, Brazil, in November 2013. The 18 regular papers presented were carefully reviewed and selected for inclusion in this book. The papers cover all aspects of bioinformatics and computational biology.

The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties

The three volume set LNCS 8226, LNCS 8227 and LNCS 8228 constitutes the proceedings of the 20th International Conference on Neural Information

Processing, ICONIP 2013, held in Daegu, Korea, in November 2013. The 180 full and 75 poster papers presented together with 4 extended abstracts were carefully reviewed and selected from numerous submissions. These papers cover all major topics of theoretical research, empirical study and applications of neural information processing research. The specific topics covered are as follows: cognitive science and artificial intelligence; learning theory, algorithms and architectures; computational neuroscience and brain imaging; vision, speech and signal processing; control, robotics and hardware technologies and novel approaches and applications.

The Earth's Hydrological Cycle

No one disputes how important it is, in today's world, to prepare students to understand mathematics as well as to use and communicate mathematics in their future lives. That task is very difficult, however. Refocusing curricula on fundamental concepts, producing new teaching materials, and designing teaching units based on 'mathematicians' common sense' (or on logic) have not resulted in a better understanding of mathematics by more students. The failure of such efforts has raised questions suggesting that what was missing at the outset of these proposals, designs, and productions was a more profound knowledge of the phenomena of learning and teaching mathematics in socially established and culturally, politically, and economically justified institutions - namely, schools. Such

knowledge cannot be built by mere juxtaposition of theories in disciplines such as psychology, sociology, and mathematics. Psychological theories focus on the individual learner. Theories of sociology of education look at the general laws of curriculum development, the specifics of pedagogic discourse as opposed to scientific discourse in general, the different possible pedagogic relations between the teacher and the taught, and other general problems in the interface between education and society. Mathematics, aside from its theoretical contents, can be looked at from historical and epistemological points of view, clarifying the genetic development of its concepts, methods, and theories. This view can shed some light on the meaning of mathematical concepts and on the difficulties students have in teaching approaches that disregard the genetic development of these concepts.

Mathematics in Popular Culture

Mathematics plays an important part in every person's life, so why isn't everyone good at it? The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties brings together commissioned pieces by a range of hand-picked influential, international authors from a variety of disciplines, all of whom share a high public profile. More than fifty experts write about mathematics learning difficulties and disabilities from a range of perspectives and answer questions such as: What are mathematics learning difficulties and disabilities? What are the key skills and concepts for learning mathematics? How will IT help,

now and in the future? What is the role of language and vocabulary? How should we teach mathematics? By posing notoriously difficult questions such as these and studying the answers The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties is the authoritative volume and is essential reading for academics in the field of mathematics. It is an incredibly important contribution to the study of dyscalculia and mathematical difficulties in children and young adults.

Closing the Gap

Promises Kept

- 10 sets of up-to-date ordinary examination papers with actual question-types
- answer keys intentionally withheld to simulate actual examination condition
- full solutions, mark schemes and exam reports for the questions, available separately
- best used just before taking the actual examination
- complete edition and concise edition eBooks available

Language Policy in Higher Education

Table of Contents Using HBMO Algorithm to Optimal Sizing & Sitting of Distributed Generation in Power System Noradin Ghadimi 1 - 8 Management of Urban Parking Lot Energy Efficiency with the Application of Wind Turbine and LED lights Bekir Z Yuksek, Ulan Dakeev 9 - 14 Indirect Vector Control of Three Phase Induction Motor using PSIM Nagulapati Kiran 15 - 24 Improved Dynamic Response of Buck Converter using Fuzzy Controller Nagulapati Kiran, Ch Varaha Narasimha Raja 25 - 36 Sliding Mode Control of Buck Converter Nagulapati Kiran 37 - 44 Two Parameter Controller for a Single Machine Infinite Bus System Ch. Varaha Narasimha Raja 45 - 50 A Hybrid Hardware Verification Technique in FPGA Design Mojtaba. Dehghani Firouzabadi, Hossein Heidari 51 - 54 A Genuine Random Sequential Multi-signature Scheme Yonglong Tang 55 - 68

Neural Information Processing

Information Security and Cryptology

CTET Practice Workbook Paper 1 (10 Solved + 10 Mock papers) Class 1 - 5 Teachers 5th Edition

"The African Governance Report, the most comprehensive report on governance in Africa, assesses and monitors the progress of African countries on governance, identifies capacity gaps in governance institutions and proposes policies and strategic interventions to improve governance on the continent. This third edition of the Report, while continuing to monitor governance trends, adopts a thematic approach: elections and the management of diversity in Africa. Elections are central to democratic governance and the political management of diversity in plural societies. While elections are held with greater regularity in Africa, their content and quality remains suspect in many countries, with Africa's rich diversity deployed as a combusive tool in electoral conflicts. Elections have often triggered conflict, with violence, tensions, acrimonies and sharp elite divisions surrounding electoral processes and outcomes-- a worrying trend for Africa's democratic future. The Report investigates elections in the face of managing diversity in Africa. It recommends major electoral, institutional, political and constitutional reforms to enable elections to facilitate the democratic management of diversity, while significantly improving their quality and credibility. These include reform of the party system to make it more inclusive and democratic, a move to more proportional electoral systems, and an increase in the autonomy and effectiveness of election management boards. The Report argues that regional and subregional initiatives and frameworks for elections, democracy and governance have to be implemented and monitored to improve electoral performance and promote democratic consolidation and stability."--Page [4] of cover.

Testing Software and Systems

25 Previous Papers CTET Child Development and Pedagogy Paper 1 & Paper 2 -1st Edition Ctet previous year papers, ctet child psychology ctet previous year solved papers, ctet books paper 1 paper 2 ctet books paper 2 maths and social science ctet english and pedagogy ctet hindi and pedagogy ctet mathematics and pedagogy ctet evs environment and pedagogy

SIAM Journal on Scientific Computing

Papers on Global Stability of Non-Solvable Ordinary Differential Equations with Applications, Quarter-Symmetric Metric Connection on Pseudosymmetric Lorentzian α -Sasakian Manifolds, Equivalence of Kropina and Projective Change of Finsler Metric, Geometric Mean Labeling of Graphs Obtained from Some Graph Operations, and other topics. Contributors: Linfan Mao, V.K. Chaubey, T.N. Pandey, C. Adiga, S.N. Fathima, Haidar Ariamanesh, H.S. Shukla, O.P. Pandey, B.N. Prasad, Tayo Charles Adefokun, Deborah Olayide Ajayi, and others.

10 YEAR-WISE CTET Paper 2 (Mathematics & Science) Solved Papers (2011 - 2018) - English Edition

CTET Practice Workbook (10 Solved + 10 Mock papers) Paper 1 (Class 1 to 5), English edition contains 10 challenging Mock Papers and Past 10 Solved Papers of the CTET exam. The Mock Tests follows the exact pattern as per the latest CTET paper. The book also contains the solution to the past CTET papers of June 2011, Jan & Nov 2012, July 2013, Feb & Sep 2014, Feb & Sep 2015 and Feb & Sep 2016 Papers. The languages covered in the tests are English (1st language) and Hindi (2nd language). Each Practice Set in the book contains sections on Child Development & Pedagogy, English, Hindi, EVS and Maths. The question papers have been set very diligently so as to give a real-feel of the actual TET. The book is also useful for other State TETs - UPTET, Rajasthan TET, Haryana TET, Bihar TET, Uttarakhand TET etc.

Neutrosophic Sets and Systems, vol. 1/2013

Fracture Phenomena in Nature and Technology

This book constitutes the proceedings of the 5th International Symposium on Cyberspace Safety and Security, CSS 2013, held in Zhangjiajie, China, in November 2013. The 30 full papers presented in this volume were carefully reviewed and selected from 105 submissions. In addition the book contains 6 workshop papers.

The papers are organized in topical sections named: data and applications security; network and communications security; software and systems security; and cloud security and cyberspace safety.

Mathematics Framework for California Public Schools

As seen on PBS's POV An unprecedented guide to helping black boys achieve success at every stage of their lives—at home, at school, and in the world Regardless of how wealthy or poor their parents are, all black boys must confront and surmount the “achievement gap”: a divide that shows up not only in our sons' test scores, but in their social and emotional development, their physical well-being, and their outlook on life. As children, they score as high on cognitive tests as their peers, but at some point, the gap emerges. Why? This is the question Joe Brewster, M.D., and Michèle Stephenson asked when their own son, Idris, began struggling in a new school. As they filmed his experiences for their award-winning documentary American Promise, they met an array of researchers who had not only identified the reasons for the gap, but had come up with practical, innovative solutions to close it. In Promises Kept, they explain

- how to influence your son's brain before he's even born
- how to tell the difference between authoritarian and authoritative discipline—and why it matters
- how to create an educational program for your son that matches his needs
- how to prepare him for explicit and implicit racism in school and in the wider world
- how to help your child develop

resilience, self-discipline, emotional intelligence, and a positive outlook that will last a lifetime Filled with innovative research, practical strategies, and the voices of parents and children who are grappling with these issues firsthand, Promises Kept will challenge your assumptions and inspire you to make sure your child isn't lost in the gap. Praise for Promises Kept "The authors offer a plethora of information and advice geared toward the specific developmental needs of black boys. . . . Thorough and detailed, this guidebook is also a call to action. As Brewster sees it, when people of color remain complacent, they not only break a tacit promise to future generations to achieve social equity, they also imperil the futures of both the nation and the planet. A practical and impassioned parenting guide."—Kirkus Reviews "A penetrating look at the standard practices, at school and at home, that contribute to the achievement gap between the races and the sexes that seems to put black boys at a disadvantage. [Brewster and Stephenson] debunk myths and offer ten parenting and education strategies to improve the prospects for black boys to help them overcome racial stereotypes and low expectations. . . . This is a practical and insightful look at the particular challenges of raising black males."—Booklist

CTET Practice Workbook Paper 2 - Science & Mathematics (10 Solved + 10 Mock papers) Class 6 - 8 Teachers 5th Edition

This book gives a comprehensive presentation of our present understanding of the Earth's Hydrological cycle and the problems, consequences and impacts that go with this topic. Water is a central component in the Earth's system. It is indispensable for life on Earth in its present form and influences virtually every aspect of our planet's life support system. On relatively short time scales, atmospheric water vapor interacts with the atmospheric circulation and is crucial in forming the Earth's climate zones. Water vapor is the most powerful of the greenhouse gases and serves to enhance the tropospheric temperature. The dominant part of available water on Earth resides in the oceans. Parts are locked up in the land ice on Greenland and Antarctica and a smaller part is estimated to exist as groundwater. If all the ice over the land and all the glaciers were to melt, the sea level would rise by some 80 m. In comparison, the total amount of water vapor in the atmosphere is small; it amounts to $\sim 25 \text{ kg/m}^2$, or the equivalent of 25 mm water for each column of air. Yet atmospheric water vapor is crucial for the Earth's energy balance. The book gives an up to date presentation of the present knowledge. Previously published in *Surveys in Geophysics*, Volume 35, No. 3, 2014

25 Previous Papers CTET Child Development and Pedagogy Paper 1 & Paper 2 -1st Edition

In today's increasingly interconnected, knowledge-based world, language policy in

higher education is rapidly becoming a crucial area for all societies aiming to play a part in the global economy. The challenge is double faceted: how can universities retain their crucial role of creating the intellectual elites who are indispensable for the running of national affairs and, at the same time, prepare their best-educated citizens for competition in a global market? To what extent is English really pushing other languages out of the academic environment? Drawing on the experience of several medium-sized language communities, this volume provides the reader with some important insights into how language policies can be successfully implemented. The different sociolinguistic contexts under scrutiny offer an invaluable comparative standpoint to understand what position can – or could – be occupied by each language at the level of higher education.

ITB journal of visual art and design

Research on the preparation and continued development of mathematics teachers is becoming an increasingly important subset of mathematics education research. Such research explores the attributes, knowledge, skills and beliefs of mathematics teachers as well as methods for assessing and developing these critical aspects of teachers and influences on teaching. Research Trends in Mathematics Teacher Education focuses on three major themes in current mathematics teacher education research: mathematical knowledge for teaching, teacher beliefs and identities, and tools and techniques to support teacher learning. Through careful

reports of individual research studies and cross-study syntheses of the state of research in these areas, the book provides insights into teachers' learning processes and how these processes can be harnessed to develop effective teachers. Chapters investigate bedrock skills needed for working with primary and secondary learners (writing relevant problems, planning lessons, being attentive to student learning) and illustrate how knowledge can be accessed, assessed, and nurtured over the course of a teaching career. Commentaries provide context for current research while identifying areas deserving future study. Included among the topics: Teachers' curricular knowledge Teachers' personal and classroom mathematics Teachers' learning journeys toward reasoning and sense-making Teachers' transitions in noticing Teachers' uses of a learning trajectory as a tool for mathematics lesson planning A unique and timely set of perspectives on the professional development of mathematics teachers at all stages of their careers, Research Trends in Mathematics Teacher Education brings clarity and practical advice to researchers as well as practitioners in this increasingly critical arena.

Gromov, Cauchy and Causal Boundaries for Riemannian, Finslerian and Lorentzian Manifolds

Papers on Mathematics on Non-Mathematics: A Combinatorial Contribution, Fuzzy Cosets and Normal Subgroups and Smarandache Fuzzy Algebra, Smarandache

radio mean number, Smarandache friendly index number, Non-Hamiltonian Cubic Planar 3-Connected Graphs, Smarandachely odd sequential labeling, Smarandachely near m-labeling, Smarandachely near m-mean graph, Smarandachely k-dominator coloring, semi-entire equitable dominating graph, etc.

Advances in Bioinformatics and Computational Biology

CTET Paper 2 (Science/ Maths) Year-wise Solved Papers (2011 - 2018) - English Edition contains Past 10 Solved Papers of the CTET exam. The past CTET Solved papers included are : June 2011, Jan & Nov 2012, July 2013, Feb & Sep 2014, Feb & Sep 2015 and Feb & Sep 2016 Papers. The languages covered in the tests are English (1st language) and Hindi (2nd language).

Mathematics Education as a Research Domain: A Search for Identity

Recently, the old notion of causal boundary for a spacetime V has been redefined consistently. The computation of this boundary ∂V on any standard conformally stationary spacetime $V = \mathbb{R} \times M$, suggests a natural compactification M_B associated to any Riemannian metric on M or, more generally, to any Finslerian one. The corresponding boundary $\partial_B M$

is constructed in terms of Busemann-type functions. Roughly, $\partial_{BM}M$ represents the set of all the directions in M including both, asymptotic and "finite" (or "incomplete") directions. This Busemann boundary $\partial_{BM}M$ is related to two classical boundaries: the Cauchy boundary $\partial_{\{C\}}M$ and the Gromov boundary $\partial_{GM}M$. The authors' aims are: (1) to study the subtleties of both, the Cauchy boundary for any generalized (possibly non-symmetric) distance and the Gromov compactification for any (possibly incomplete) Finsler manifold, (2) to introduce the new Busemann compactification M_B , relating it with the previous two completions, and (3) to give a full description of the causal boundary $\partial_V M$ of any standard conformally stationary spacetime.

Neutrosophic Sets and Systems, Vol. I

CTET Practice Workbook Paper 2 – Science/ Maths (10 Solved + 10 Mock papers), English Edition, contains 10 challenging Mock Papers along with 10 Past Solved Papers. The Mock Tests follows the exact pattern as per the latest CTET paper. The book also contains the solution to the past CTET papers of June 2011, Jan & Nov 2012, July 2013, Feb & Sep 2014, Feb & Sep 2015 and Feb & Sep 2016 Papers. The languages covered in the tests are English (1st language) and Hindi (2nd language). Each Practice Set in the book contains sections on Child Development & Pedagogy, English, Hindi, Mathematics and Science. The question papers have been set very diligently so as to give a real-feel of the actual TET. The book is also

useful for other State TETs - UPTET, Rajasthan TET, Haryana TET, Bihar TET, Uttarakhand TET etc.

Cyberspace Safety and Security

Two bugs, Ralph and Flora, try to divide thirteen beans so that the unlucky thirteenth bean disappears, but they soon discover that the math is not so easy.

CTET Mathematics & Science 9 Year-wise Solved Papers 1 & 2

Image and Video Technology

“Neutrosophic Sets and Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Web and Network Data Science

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Information Security and Cryptology, Inscrypt 2013, held in Guangzhou, China, in November 2013. The 21 revised full papers presented together with 4 short papers were carefully reviewed and selected from 93 submissions. The papers cover the topics of Boolean function and block cipher, sequence and stream cipher, applications: systems and theory, computational number theory, public key cryptography, hash function, side-channel and leakage, and application and system security.

O-level Additional Mathematics Challenging Exam Questions (Yellowreef)

This book constitutes the thoroughly refereed post-conference proceedings of the 6th Pacific Rim Symposium on Image and Video Technology, PSIVT 2013, held in Guanajuato, México in October/November 2013. The total of 43 revised papers was carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on image/video processing and analysis, image/video retrieval and scene understanding, applications of image and video technology, biomedical image processing and analysis, biometrics and image forensics, computational photography and arts, computer and robot vision, pattern recognition and video surveillance.

Mathematical Combinatorics, Vol. 3/2014

Messenger of mathematics

Since 2013, mathematicians from around the world have made dramatic progress on a problem in number theory that goes back centuries, the Twin Primes Conjecture, which asserts that there are infinitely many pairs of prime numbers that differ by 2 (for example, 17 and 19 is such a pair). This book describes two stories: that of the recent work on the Twin Primes Conjecture, and in parallel the related ideas around primes from the previous two thousand years of mathematics.

African Governance Report III 2013

Political science and sociology increasingly rely on mathematical modeling and sophisticated data analysis, and many graduate programs in these fields now require students to take a "math camp" or a semester-long or yearlong course to acquire the necessary skills. Available textbooks are written for mathematics or economics majors, and fail to convey to students of political science and sociology the reasons for learning often-abstract mathematical concepts. A Mathematics

Online Library Mathematics Paper 1 2013 November Mark Scheme

Course for Political and Social Research fills this gap, providing both a primer for math novices in the social sciences and a handy reference for seasoned researchers. The book begins with the fundamental building blocks of mathematics and basic algebra, then goes on to cover essential subjects such as calculus in one and more than one variable, including optimization, constrained optimization, and implicit functions; linear algebra, including Markov chains and eigenvectors; and probability. It describes the intermediate steps most other textbooks leave out, features numerous exercises throughout, and grounds all concepts by illustrating their use and importance in political science and sociology. Uniquely designed and ideal for students and researchers in political science and sociology Uses practical examples from political science and sociology Features "Why Do I Care?" sections that explain why concepts are useful Includes numerous exercises Complete online solutions manual (available only to professors, email david.siegel at duke.edu, subject line "Solution Set") Selected solutions available online to students

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