

- 7 The point C lies on the perpendicular bisector of the line joining the points $A(4, 6)$ and $B(10, 2)$. C also lies on the line parallel to AB through $(3, 11)$.
- (i) Find the equation of the perpendicular bisector of AB . [4]
- (ii) Calculate the coordinates of C . [3]

- 8 (a) The first, second and last terms in an arithmetic progression are 56, 53 and -22 respectively. Find the sum of all the terms in the progression. [4]
- (b) The first, second and third terms of a geometric progression are $2k + 6$, $2k$ and $k + 2$ respectively, where k is a positive constant.
- (i) Find the value of k . [3]
- (ii) Find the sum to infinity of the progression. [2]

- 9 Relative to an origin O , the position vectors of points A and B are given by

$$\overrightarrow{OA} = 2\mathbf{i} + 4\mathbf{j} + 4\mathbf{k} \quad \text{and} \quad \overrightarrow{OB} = 3\mathbf{i} + \mathbf{j} + 4\mathbf{k}.$$

- (i) Use a vector method to find angle AOB . [4]

The point C is such that $\overrightarrow{AB} = \overrightarrow{BC}$.

- (ii) Find the unit vector in the direction of \overrightarrow{OC} . [4]
- (iii) Show that triangle OAC is isosceles. [1]

- 10 The equation of a curve is $y = \frac{4}{2x^2 - 1}$.
- (i) Find, showing all necessary working, the volume obtained when the region bounded by the curve, the x -axis and the lines $x = 1$ and $x = 2$ is rotated through 360° about the x -axis. [4]
- (ii) Given that the line $2y = x + c$ is a normal to the curve, find the possible values of the constant c . [6]

- 11 The function f is defined by $f : x \mapsto 2x^2 - 6x + 5$ for $x \in \mathbb{R}$.
- (i) Find the set of values of p for which the equation $f(x) = p$ has no real roots. [3]

The function g is defined by $g : x \mapsto 2x^2 - 6x + 5$ for $0 \leq x \leq 4$.

- (ii) Express $g(x)$ in the form $a(x + b)^2 + c$, where a , b and c are constants. [3]
- (iii) Find the range of g . [2]

The function h is defined by $h : x \mapsto 2x^2 - 6x + 5$ for $k \leq x \leq 4$, where k is a constant.

- (iv) State the smallest value of k for which h has an inverse. [1]
- (v) For this value of k , find an expression for $h^{-1}(x)$. [3]



Mathematics A Levels May June 2015

Jenny Carter, Clive Rosen



Mathematics A Levels May June 2015:

Mathematics for Social Justice: Resources for the College Classroom Gizem Karaali, Lily S. Khadjavi, 2019-07-09

Mathematics for Social Justice offers a collection of resources for mathematics faculty interested in incorporating questions of social justice into their classrooms. The book begins with a series of essays from instructors experienced in integrating social justice themes into their pedagogy; these essays contain political and pedagogical motivations as well as nuts and bolts teaching advice. The heart of the book is a collection of fourteen classroom-tested modules featuring ready-to-use activities and investigations for the college mathematics classroom. The mathematical tools and techniques used are relevant to a wide variety of courses including college algebra, math for the liberal arts, calculus, differential equations, discrete mathematics, geometry, financial mathematics, and combinatorics. The social justice themes include human trafficking, income inequality, environmental justice, gerrymandering, voting methods, and access to education. The volume editors are leaders of the national movement to include social justice material into mathematics teaching. Gizem Karaali is Associate Professor of Mathematics at Pomona College. She is one of the founding editors of *The Journal of Humanistic Mathematics* and an associate editor for *The Mathematical Intelligencer* and *Numeracy*; she also serves on the editorial board of the MAA's *Carus Mathematical Monographs*. Lily Khadjavi is Associate Professor of Mathematics at Loyola Marymount University and is a past co-chair of the Infinite Possibilities Conference. She has served on the boards of Building Diversity in Science, the Barbara Jordan Bayard Rustin Coalition, and the Harvard Gender and Sexuality Caucus.

Engineering Mathematics Volume - III (Statistical and Numerical Methods) (For 1st Year - 2nd Semester of JNTU, Hyderabad) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., *Engineering Mathematics*

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2024-01-22

Teaching Secondary and Middle School Mathematics combines the latest developments in research, technology, and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics. The book explores the mathematics teaching profession by examining the processes of planning, teaching, and assessing student progress through practical examples and recommendations. Beginning with an examination of what it means to teach and learn mathematics, the reader is led through the essential components of teaching, concluding with an examination of how teachers continue with professional development throughout their careers. Hundreds of citations are used to support the ideas presented in the text, and specific websites and other resources are presented for future study by the reader. Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms. The seventh edition has been updated and expanded with particular emphasis on the latest technology, standards, and other resources. The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation, as well as how to manage a classroom for success. Features include:

Following on from the sixth edition, assessment takes a central role in planning and

teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor s Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9781032472867 Teaching and Learning Mathematics Online James P. Howard, II, John F.

Beyers, 2025-06-30 Teaching and Learning Mathematics Online Second Edition continues to present meaningful and practical solutions for teaching mathematics and statistics online It focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with the community The book provides a set of standard practices improving the quality of online teaching and the learning of mathematics Instructors will benefit from learning new techniques and approaches to delivering content New to the Second Edition Nine brand new chapters Reflections on the lessons of COVID 19 Explorations of new technological opportunities **Developing 21st Century**

Competencies In The Mathematics Classroom: Yearbook 2016, Association Of Mathematics Educators Pee Choon Toh, Berinderjeet Kaur, 2016-05-20 The aim of this book is to contribute towards literature in the field of mathematics education specifically the development of 21st century competencies amongst learners of mathematics The book comprising fourteen chapters written by renowned researchers in mathematics education provides readers with approaches and applicable classroom strategies to foster skills and dispositions that will enable learners to thrive in the fast changing and complex world that we live in today The chapters in the book can be classified into three broad themes The first is an examination of what is meant by 21st century competencies and how they can be developed within the context of the mathematics curriculum The second is an in depth discussion of evidence based practices aimed at fostering specific competencies like metacognition and reflective thinking critical thinking and communication skills The last and third theme is about teaching approaches that are likely to feature increasingly in the 21st century classroom for example flipped

learning or the use of comics and storytelling **Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives** Kinga Morsanyi,Irene Cristina Mammarella,Denes Szűcs,Carlo Tomasetto,Caterina Primi,Erin Anne Maloney,2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research Technological Innovations in Education Dr. Adegbola Ismail Adelabu,Adigun Olatunde Thomas PhD.,Hanan Mohammed Ali AbdulRab,Thapelo Molefhi,2024-06-06 TOPICS IN THE BOOK Assessment of Students Perceptions of the Mobile Application System for Checking Results Geogebra Software Synergy That Improves Performance in Geometry Learning in Ogbomoso Education Zone of Oyo State Teacher Professional Development in the 21st Century An Investigation into School Leaders Perspective as Change Agents in the Implementation of the Performance Management System PMS Case of South East and Southern Regions Junior Secondary Schools in Botswana *Federal Register* ,2013-12 **Mathematics (Education) in the Information Age** Stacy A. Costa,Marcel Danesi,Dragana Martinovic,2020-12-10 This book brings together ideas from experts in cognitive science mathematics and mathematics education to discuss these issues and to present research on how mathematics and its learning and teaching are evolving in the Information Age Given the ever broadening trends in Artificial Intelligence and the processing of information generally the aim is to assess their implications for how math is evolving and how math should now be taught to a generation that has been reared in the Information Age It will also look at the ever spreading assumption that human intelligence may not be unique an idea that dovetails with current philosophies of mind such as posthumanism and transhumanism The role of technology in human evolution has become critical in the contemporary world Therefore a subgoal of this book is to illuminate how humans now use their sophisticated technologies to chart cognitive and social progress Given the interdisciplinary nature of the chapters this will be of interest to all kinds of readers from mathematicians themselves working increasingly with computer scientists to cognitive scientists who carry out research on mathematics cognition and teachers of mathematics in a classroom **Woodcock-Johnson IV** Nancy Mather,Lynne E. Jaffe,2016-01-26 Includes online access to new customizable WJ IV score tables graphs and forms for

clinicians Woodcock Johnson IV Reports Recommendations and Strategies offers psychologists clinicians and educators an essential resource for preparing and writing psychological and educational reports after administering the Woodcock Johnson IV Written by Drs Nancy Mather and Lynne E Jaffe this text enhances comprehension and use of this instrument and its many interpretive features This book offers helpful information for understanding and using the WJ IV scores provides tips to facilitate interpretation of test results and includes sample diagnostic reports of students with various educational needs from kindergarten to the postsecondary level The book also provides a wide variety of recommendations for cognitive abilities oral language and the achievement areas of reading written language and mathematics It also provides guidelines for evaluators and recommendations focused on special populations such as sensory impairments autism English Language Learners and gifted and twice exceptional students as well as recommendations for the use of assistive technology The final section provides descriptions of the academic and behavioral strategies mentioned in the reports and recommendations The unique access code included with each book allows access to downloadable easy to customize score tables graphs and forms This essential guide Facilitates the use and interpretation of the WJ IV Tests of Cognitive Abilities Tests of Oral Language and Tests of Achievement Explains scores and various interpretive features Offers a variety of types of diagnostic reports Provides a wide variety of educational recommendations and evidence based strategies *Denial and Deprivation* Abdur Rahman,2019-02-18 The volume attempts to gauge and analyse the level of denial and deprivation faced by Indian Muslims by evaluating their status after a gap of several years of Sachar Committee 2006 and Rangnath Mishra Commission 2007 Reports It presents and discusses the current conditions with respect to outcome indicators such as population education economy poverty unemployment consumption level availability of bank loans infrastructure and civic facilities and representation in government employment By placing facts in perspective it also discusses community specific issues such as use of Urdu madrasa education and Waqf In the post Sachar era governments started many schemes to improve the condition of Muslims whose reach and impact is assessed with the help of latest data It presents the social structure of Muslims presence of OBCs and Dalits and suggests a practical pattern for reservation It follows up the process of implementation of recommendations of these reports and highlights how the governments adopted tokenism attempted to implement minor recommendations and shied away from major ones The volume highlights the lopsided attitude of the previous UPA govern ments hostile attitude of the present NDA regime and accelerated marginalization of Muslims in today s scenario due to open discrimination mob violence lynching and hate crimes in the name of various communal issues Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka *Daily Graphic* Ransford Tetteh,2014-03-24 **The Wiley International Handbook of Educational Foundations** Alan S. Canestrari,Bruce A. Marlowe,2018-09-17 Promotes a model of critique for teachers scholars and policy makers to challenge established educational practice in a global context The Wiley International Handbook of Educational Foundations

features international scholars uniquely qualified to examine issues specific to their regions of the world The Handbook provides readers with an alternative to the traditional texts in the foundations of education by taking aim at the status quo and by offering frameworks from which teachers and scholars of education can critically evaluate schools and schooling Throughout the essays are grounded in a broad historical context and the authors use an international lens to examine current controversies in order to provoke the kinds of discussion crucial for developing a critical stance The Handbook is presented in six parts each beginning with an Introduction to the subject The sections featured are Part I Challenging Foundational Histories and Narratives of Achievement Part II Challenging Notions of Normalcy and Dominion Part III Challenging the Profession Part IV Challenging the Curriculum Part V Challenging the Idea of Schooling and Part VI Challenging Injustice Inequity and Enmity The Wiley International Handbook of Educational Foundations offers unique insight into subjects such as Educational reform in India Pakistan and China The global implications of equity driven education Teacher education and inclusionary practices The Global Educational Reform Movement G E R M Education and the arts Maria Montessori and Loris Malaguzzi Legal education in authoritarian Syria The Wiley International Handbook of Educational Foundations is an important book for current and aspiring educators scholars and policy makers

Transnational Higher Education in Computing Courses Jenny Carter, Clive Rosen, 2019-09-24 There has been exponential growth in transnational education TNE in the last few years as UK universities have looked to expand their markets Recipient countries have sought short cuts to developing their higher education provision which has proved a lucrative income stream for some universities But overseas collaborations are not without risk Recipient countries can be concerned with external influence over curricula quality being diluted and higher education being infected by neo imperialism These concerns are not without foundation There are risks for providers too Reputations can be damaged if academic standards are compromised Conflicts of interest can occur between quality of provision and the pot of gold on offer Staff can view overseas collaborations as distracting from their research and commitment to home students Computing is a particularly popular subject for TNE but critical thinking analysis independent learning and creativity can be compromised Preventing plagiarism is difficult Constant changes in technology result in constant curricula revision which causes severe problems for overseas collaborations This book focuses on TNE in the computing domain However cross cultural issues challenge TNE management and administration whatever the subject area If the ever present tensions are not continuously monitored they can quickly threaten the sustainability of the collaboration This book identifies many of the threats and some of the solutions The readership for this book is truly global Any international development officer in higher education considering an overseas collaboration will benefit from this book Any academic becoming engaged in or already involved with a TNE partnership either as provider or recipient will gain information and insight into the practice and issues Researchers in TNE will discover more lines of enquiry Students considering a course with an overseas provider or in coming

to the UK to study will be better prepared thereby enabling a more fulfilling and rewarding experience Anyone who has an interest in TNE whether at the senior executive level operational level delivering programmes or as a recipient of TNE should read this book The wealth of experience gathered here will provoke questions prompt debate and offer solutions It has been written by people who know the issues bear the scars and are happy to share their knowledge It will greatly benefit future transnational collaborations

Model Predictive Control of Wind Energy Conversion Systems Venkata Yaramasu,Bin Wu,2016-12-19 Model Predictive Control of Wind Energy Conversion Systems addresses the predictive control strategy that has emerged as a promising digital control tool within the field of power electronics variable speed motor drives and energy conversion systems The authors provide a comprehensive analysis on the model predictive control of power converters employed in a wide variety of variable speed wind energy conversion systems WECS The contents of this book includes an overview of wind energy system configurations power converters for variable speed WECS digital control techniques MPC modeling of power converters and wind generators for MPC design Other topics include the mapping of continuous time models to discrete time models by various exact approximate and quasi exact discretization methods modeling and control of wind turbine grid side two level and multilevel voltage source converters The authors also focus on the MPC of several power converter configurations for full variable speed permanent magnet synchronous generator based WECS squirrel cage induction generator based WECS and semi variable speed doubly fed induction generator based WECS Furthermore this book Analyzes a wide variety of practical WECS illustrating important concepts with case studies simulations and experimental results Provides a step by step design procedure for the development of predictive control schemes for various WECS configurations Describes continuous and discrete time modeling of wind generators and power converters weighting factor selection discretization methods and extrapolation techniques Presents useful material for other power electronic applications such as variable speed motor drives power quality conditioners electric vehicles photovoltaic energy systems distributed generation and high voltage direct current transmission Explores S Function Builder programming in MATLAB environment to implement various MPC strategies through the companion website Reflecting the latest technologies in the field Model Predictive Control of Wind Energy Conversion Systems is a valuable reference for academic researchers practicing engineers and other professionals It can also be used as a textbook for graduate level and advanced undergraduate courses

The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate Stephen J. Ceci,Wendy M. Williams,Shulamit Kahn,2018-04-20 There is no shortage of articles and books exploring women s underrepresentation in science Everyone is interested academics politicians parents high school girls and boys women in search of college majors administrators working to accommodate women s educational interests the list goes on But one thing often missing is an evidence based examination of the problem uninfluenced by personal opinions accounts of lived experiences anecdotes and the always encroaching inputs of popular culture This is why this special issue of

Frontiers in Psychology can make a difference In it a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical objective approaches to understanding women s underrepresentation in science today The questions considered within this special issue span academic disciplines methods levels of analysis and nature of analysis what these article share is their scholarly evidence based approach to understanding a key issue of our time

The Next Step James Freemyer,2019-11-04 This book is written on the behalf of mathematics teachers who have been asked to teach more conceptually while simultaneously motivating more students of all ability levels to willingly embrace further upper level mathematics content and courses This is a BIG ASK Math teachers are being expected to overhaul their current teaching approach Can teachers be expected to embrace this crusade alone isolated in a classroom Principals are charged with leading the way They must provide the opportunities and resources necessary for effective teacher collaboration After reading this book a principal will comprehend the enormity of task each mathematics teachers faces and learn what must be done to help School leaders will be able to design a growth plan based on a plethora of collaborative approaches Mathematics teachers will experience the assistance they have desperately needed Applied Physics, System Science and Computers Klimis Ntalianis,Anca Croitoru,2017-07-20 This book reports on advanced theories and methods in three related fields of research applied physics system science and computers It is organized in two main parts the first of which covers applied physics topics including lasers and accelerators condensed matter soft matter and materials science nanoscience and quantum engineering atomic molecular optical and plasma physics as well as nuclear and high energy particle physics It also addresses astrophysics gravitation earth and environmental science as well as medical and biological physics The second part focuses on advances in system science and computers exploring automatic circuit control power systems computer communication fluid mechanics simulation and modeling software engineering data structures and applications of artificial intelligence among other areas Offering a collection of contributions presented at the 1st International Conference on Applied Physics System Science and Computers APSAC 2016 the book bridges the gap between applied physics and electrical engineering It not only to presents new methods but also promotes collaborations between different communities working on related topics at the interface between physics and engineering with a special focus on communication data modeling and visualization quantum information applied mechanics as well as bio and geophysics

Inside Salafi-Jihadist Governance Marta Furlan,2025-09-23 In the years following the Arab Spring a number of Islamist insurgent groups conquered swaths of territory across the Middle East and North Africa and began governing civilian populations These groups have been faced with the complexities of administering justice collecting taxes and providing public services such as health care and education How do Salafi jihadist armed groups which typically claim to be committed to ideological purity approach administration and what does this reveal about rule by insurgent forces This book is a groundbreaking comparative exploration of Salafi jihadist governance drawing on in depth case studies of the Islamic

State in western Iraq and eastern Syria Hayat Tahrir al Sham in northwestern Syria and al Qaeda in the Arabian Peninsula in southern Yemen Marta Furlan examines rebels experiments in ruling considering issues such as the treatment of non Muslims the extent of civilian participation the use of coercive measures and the scope of social and political change She assesses whether there is a single model of Salafi jihadist governance the degree to which ideology and doctrine inform the behavior of rebel rulers and the similarities and differences between Salafi jihadists and other armed nonstate groups Offering a window into the inner workings of government and civilian life under Islamist power Inside Salafi Jihadist Governance sheds new light on rule by nonstate groups more broadly

Teaching and Learning Stochastics Carmen Batanero,Egan J Chernoff,2018-03-01 This book presents a collection of selected papers that represent the current variety of research on the teaching and learning of probability The respective chapters address a diverse range of theoretical empirical and practical aspects underpinning the teaching and learning of probability curricular issues probabilistic reasoning misconceptions and biases as well as their pedagogical implications These chapters are divided into THREE main sections dealing with TEACHING PROBABILITY STUDENTS REASONING AND LEARNING AND EDUCATION OF TEACHERS In brief the papers presented here include research dealing with teachers and students at different levels and ages from primary school to university and address epistemological and curricular analysis as well as the role of technology simulations language and visualisation in teaching and learning probability As such it offers essential information for teachers researchers and curricular designers alike

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