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Assessing Mathematical Literacy - Kaye Stacey
2014-11-03

This book describes the design, development, delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment (PISA). First, the origins of PISA's concept of mathematical literacy are discussed, highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world, and clarifying PISA's position within this part of the mathematics education territory. The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas. The underlying mathematical competencies on which mathematical literacy so strongly depends are described, along with a scheme to use them in item creation and analysis. The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed. Different kinds of items for both paper-based and computer-based PISA surveys are exemplified by many publicly released items along with details of scoring. The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained. The book concludes by surveying international impact. It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices, curriculum arrangements, assessment practices, and the

educational debate more generally in fourteen countries.

How Humans Learn to Think

Mathematically - David Tall 2013-09-02

How Humans Learn to Think Mathematically describes the development of mathematical thinking from the young child to the sophisticated adult. Professor David Tall reveals the reasons why mathematical concepts that make sense in one context may become problematic in another. For example, a child's experience of whole number arithmetic successively affects subsequent understanding of fractions, negative numbers, algebra, and the introduction of definitions and proof. Tall's explanations for these developments are accessible to a general audience while encouraging specialists to relate their areas of expertise to the full range of mathematical thinking. The book offers a comprehensive framework for understanding mathematical growth, from practical beginnings through theoretical developments, to the continuing evolution of mathematical thinking at the highest level.

Mathematical Physics with Partial Differential Equations - James Kirkwood 2018-02-26

Mathematical Physics with Partial Differential Equations, Second Edition, is designed for upper division undergraduate and beginning graduate students taking mathematical physics taught out by math departments. The new edition is based on the success of the first, with a continuing focus on clear presentation, detailed examples,

mathematical rigor and a careful selection of topics. It presents the familiar classical topics and methods of mathematical physics with more extensive coverage of the three most important partial differential equations in the field of mathematical physics—the heat equation, the wave equation and Laplace’s equation. The book presents the most common techniques of solving these equations, and their derivations are developed in detail for a deeper understanding of mathematical applications. Unlike many physics-leaning mathematical physics books on the market, this work is heavily rooted in math, making the book more appealing for students wanting to progress in mathematical physics, with particularly deep coverage of Green’s functions, the Fourier transform, and the Laplace transform. A salient characteristic is the focus on fewer topics but at a far more rigorous level of detail than comparable undergraduate-facing textbooks. The depth of some of these topics, such as the Dirac-delta distribution, is not matched elsewhere. New features in this edition include: novel and illustrative examples from physics including the 1-dimensional quantum mechanical oscillator, the hydrogen atom and the rigid rotor model; chapter-length discussion of relevant functions, including the Hermite polynomials, Legendre polynomials, Laguerre polynomials and Bessel functions; and all-new focus on complex examples only solvable by multiple methods. Introduces and evaluates numerous physical and engineering concepts in a rigorous mathematical framework Provides extremely detailed mathematical derivations and solutions with extensive proofs and weighting for application potential Explores an array of detailed examples from physics that give direct application to rigorous mathematics Offers instructors useful resources for teaching, including an illustrated instructor’s manual, PowerPoint presentations in each chapter and a solutions manual

Green - Ted Dekker 2009-09

A Primer for Mathematics Competitions - Alexander Zawaira 2008-10-31

The importance of mathematics competitions has been widely recognised for three reasons: they help to develop imaginative capacity and thinking skills whose value far transcends

mathematics; they constitute the most effective way of discovering and nurturing mathematical talent; and they provide a means to combat the prevalent false image of mathematics held by high school students, as either a fearsomely difficult or a dull and uncreative subject. This book provides a comprehensive training resource for competitions from local and provincial to national Olympiad level, containing hundreds of diagrams, and graced by many light-hearted cartoons. It features a large collection of what mathematicians call "beautiful" problems - non-routine, provocative, fascinating, and challenging problems, often with elegant solutions. It features careful, systematic exposition of a selection of the most important topics encountered in mathematics competitions, assuming little prior knowledge. Geometry, trigonometry, mathematical induction, inequalities, Diophantine equations, number theory, sequences and series, the binomial theorem, and combinatorics - are all developed in a gentle but lively manner, liberally illustrated with examples, and consistently motivated by attractive "appetiser" problems, whose solution appears after the relevant theory has been expounded. Each chapter is presented as a "toolchest" of instruments designed for cracking the problems collected at the end of the chapter. Other topics, such as algebra, co-ordinate geometry, functional equations and probability, are introduced and elucidated in the posing and solving of the large collection of miscellaneous problems in the final toolchest. An unusual feature of this book is the attention paid throughout to the history of mathematics - the origins of the ideas, the terminology and some of the problems, and the celebration of mathematics as a multicultural, cooperative human achievement. As a bonus the aspiring "mathlete" may encounter, in the most enjoyable way possible, many of the topics that form the core of the standard school curriculum.

Geometric Morphometrics for Biologists - Miriam Leah Zelditch 2012-09-24

The first edition of Geometric Morphometrics for Biologists has been the primary resource for teaching modern geometric methods of shape analysis to biologists who have a stronger background in biology than in multivariate statistics and matrix algebra. These geometric

methods are appealing to biologists who approach the study of shape from a variety of perspectives, from clinical to evolutionary, because they incorporate the geometry of organisms throughout the data analysis. The second edition of this book retains the emphasis on accessible explanations, and the copious illustrations and examples of the first, updating the treatment of both theory and practice. The second edition represents the current state-of-the-art and adds new examples and summarizes recent literature, as well as provides an overview of new software and step-by-step guidance through details of carrying out the analyses. Contains updated coverage of methods, especially for sampling complex curves and 3D forms and a new chapter on applications of geometric morphometrics to forensics Offers a reorganization of chapters to streamline learning basic concepts Presents detailed instructions for conducting analyses with freely available, easy to use software Provides numerous illustrations, including graphical presentations of important theoretical concepts and demonstrations of alternative approaches to presenting results

Pure Mathematics for Advanced Level - B. D. Bunday 2014-05-20

Pure Mathematics for Advanced Level, Second Edition is written to meet the needs of the student studying for the General Certificate of Education at Advanced Level. The text is organized into 22 chapters. Chapters 1-5 cover topics in algebra such as operations with real numbers, the binomial theorem, and the quadratic function and the quadratic equation. The principles, methods and techniques in calculus, trigonometry, and co-ordinate geometry are provided as well. Two new chapters have been added: Numerical Methods and Vectors. Mathematics students will find this book extremely useful.

Mathematical Modeling in Experimental Nutrition: Vitamins, Proteins, Methods - 1996-12-02

This book developed from a series of conferences to facilitate the application of mathematical modeling to experimental nutrition. As nutrition science moves from prevention of gross deficiencies to identifying requirements for optimum long term health,

more sophisticated methods of nutritional assessment will be needed. Collection and evaluation of kinetic data may be one such method. This books opens with chapters giving specific examples of the application of modeling techniques to vitamin A, carotenoids, folate, vitamin b-6, glycogen phosphorylase, transthyretin, amino acids, and energy metabolism. Obtaining kinetic data on internal processes is a major challenge; therefore, the text includes chapters on the use of microdialysis and ultrafiltration, use of membrane vesicles, and culture of mammary tissue. Many of the authors use the Simulation, Analysis and Modeling program which allows compartmental models to be described without specifying the required differential equations. The final sections of the book, however, present some more mathematical descriptions of physiological processes, including bioperiodicity, metabolic control, and membrane transport; discussions of some computational aspects of modeling such as parameter distributions, linear integrators and identifiability; and alternative mathematical approaches such as neural networks and graph theory. Specific, detailed examples of applications of modeling to vitamins, proteins, amino acids, and energy metabolism Novel methods for collecting kinetic data--microdialysis, ultrafiltration, membrane vesicles, and the culture of mammary tissue Mathematical treatment of complex metabolic processes including bioperiodicity, metabolic control, and membrane transport Computational approaches to distribution of kinetic parameters, evaluation of linear integrators, and identifiability Alternative mathematical approaches--neural networks and graph theory Detailed descriptions of the application of modeling to a variety of nutrients

A Course in Modern Mathematical Physics - Peter Szekeres 2004-12-16

This textbook, first published in 2004, provides an introduction to the major mathematical structures used in physics today.

Green and Sustainable Computing: - 2012-11-07

Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also

provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science
Shelfmark : Bulletin of the National Free Library of Zimbabwe - 1973

Music: A Mathematical Offering - Dave Benson 2007

This book explores the interaction between music and mathematics including harmony, symmetry, digital music and perception of sound.

Sustainability, Climate Change and the Green Economy - Nhamo, Godwell 2017-02-03
Written by 18 authors, this book on Sustainability, Climate Change and the Green Economy brings together insights at the nexus of the four key concepts embedded in its title. The book is unpacked in six parts. Part 1 is a single chapter that covers the context of the topic. Part 2 looks at the green economy and green jobs, and addresses the challenges of government coordination and socio-economic development, with emphasis on skills and immigration regimes. Part 3 reflects on sustainable development, with a focus on relearning our wants and needs, and provides critical reflection on engineering for sustainable development. Management of natural resources and wetlands makes up Part 4, which teases out issues on timber harvesting, as well as challenges and opportunities in addressing environment-economic development and growth conflicts. A critique of climate change coverage in news media, mainstreaming climate change into wildlife policies, and tourism, are matters covered in Part 5. The last part (Part 6) is another single chapter, which articulates emerging issues from the whole book and presents some policy and take-home messages. Given the growing literature in the field of sustainability, climate change and the green economy, this piece will prove a must-read for

policy makers, academics, industry and civil society.

Maths - Ric Pimentel 2011-06

This Workbook, for Cambridge Secondary 1 Maths, is fully matched to the Curriculum Framework, Cambridge Checkpoint Tests and the Cambridge Progression Tests. It offers your students essential practice to ensure a full understanding of topics. There is a parallel exercise for each exercise in the bestselling Student's Book, and students can write their answers in the Workbook, making them perfect for both classroom and homework use.

The Little Book of String Theory - Steven S. Gubser 2010-02-08

The essential beginner's guide to string theory
The Little Book of String Theory offers a short, accessible, and entertaining introduction to one of the most talked-about areas of physics today. String theory has been called the "theory of everything." It seeks to describe all the fundamental forces of nature. It encompasses gravity and quantum mechanics in one unifying theory. But it is unproven and fraught with controversy. After reading this book, you'll be able to draw your own conclusions about string theory. Steve Gubser begins by explaining Einstein's famous equation $E = mc^2$, quantum mechanics, and black holes. He then gives readers a crash course in string theory and the core ideas behind it. In plain English and with a minimum of mathematics, Gubser covers strings, branes, string dualities, extra dimensions, curved spacetime, quantum fluctuations, symmetry, and supersymmetry. He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand. How does Chopin's Fantasia-Impromptu relate to quantum mechanics? What would it be like to fall into a black hole? Why is dancing a waltz similar to contemplating a string duality? Find out in the pages of this book. The Little Book of String Theory is the essential, most up-to-date beginner's guide to this elegant, multidimensional field of physics.

Ruth and the Green Book - Calvin Alexander Ramsey 2013-11-01

Ruth was so excited to take a trip in her family's new car! In the early 1950s, few African Americans could afford to buy cars, so this would be an adventure. But she soon found out

that black travelers weren't treated very well in some towns. Many hotels and gas stations refused service to black people. Daddy was upset about something called Jim Crow laws . . . Finally, a friendly attendant at a gas station showed Ruth's family The Green Book. It listed all of the places that would welcome black travelers. With this guidebook—and the kindness of strangers—Ruth could finally make a safe journey from Chicago to her grandma's house in Alabama. Ruth's story is fiction, but The Green Book and its role in helping a generation of African American travelers avoid some of the indignities of Jim Crow are historical fact.

The Green Belt Movement - Wangari Maathai 2003

Wangari Maathai, founder of The Green Belt Movement, tells its story including the philosophy behind it, its challenges, and objectives.

PISA Take the Test Sample Questions from OECD's PISA Assessments - OECD 2009-02-02

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

A First Course in the Numerical Analysis of Differential Equations - A. Iserles 2009

lead the reader to a theoretical understanding of the subject without neglecting its practical aspects. The outcome is a textbook that is mathematically honest and rigorous and provides its target audience with a wide range of skills in both ordinary and partial differential equations." --Book Jacket.

The Discrete Mathematical Charms of Paul Erdős - Vašek Chvátal 2021-05-31

Paul Erdős published more papers during his lifetime than any other mathematician, especially in discrete mathematics. He had a nose for beautiful, simply-stated problems with solutions that have far-reaching consequences across mathematics. This captivating book, written for students, provides an easy-to-understand introduction to discrete mathematics by presenting questions that intrigued Erdős, along with his brilliant ways of working toward their answers. It includes young Erdős's proof of Bertrand's postulate, the Erdős-Szekeres Happy End Theorem, De Bruijn-Erdős theorem, Erdős-

Rado delta-systems, Erdős-Ko-Rado theorem, Erdős-Stone theorem, the Erdős-Rényi-Sós Friendship Theorem, Erdős-Rényi random graphs, the Chvátal-Erdős theorem on Hamilton cycles, and other results of Erdős, as well as results related to his work, such as Ramsey's theorem or Deza's theorem on weak delta-systems. Its appendix covers topics normally missing from introductory courses. Filled with personal anecdotes about Erdős, this book offers a behind-the-scenes look at interactions with the legendary collaborator.

Spanish Short Stories For Beginners (Vol 1) - Mobile Library 2018-05-20

¡Hola! Hello! Did you understand this first Spanish word? Yes, you did! Why? Because it was presented to you using a new technique that is making learning languages easier than ever - the Bilingual Reading. We created this book using this technique so that you can learn Spanish in a fast and fun way and whenever you want. How does this work? It is simple: Bilingual Reading works by reading two versions of the same book or text at once. One version will be on the language you want to learn (in this case we will help you to learn Spanish) and the other version will be in your native language or some other language you are comfortable with - here we will use English. Using this method, you will quickly start discovering the meaning of the words in Spanish and accumulating vocabulary that will soon allow you to read texts that are more complex without having to spend hours and hours looking for every word meaning on a dictionary and trying hard to memorize it. In order to make it easier for you to learn Spanish in a fun way, we gathered in a word a very special group of 12 Spanish short stories. These 12 Spanish short stories for beginners were written using straightforward grammar that is comprehensible for beginners and that will help you rapidly gain more Spanish vocabulary and comprehension. Using Spanish English parallel text, this book will increase your bilingual reading comprehension skills and maximize the time you invest in reading. The book is organized as a Spanish learning book: you can start by reading each paragraph of each story in the two languages (in Spanish English parallel text), then move to read the full story in each language, rereading to consolidate the Spanish

fundamentals whenever is necessary. This way you will feel the progress of Spanish language learning when moving from story to story and see your Spanish vocabulary grow as your bilingual reading comprehension increases - allows you to learn Spanish easily and more than that, you can learn Spanish in a fast and fun way. You can even dedicate it a few moments every day so you can even learn Spanish in 10 minutes a day if you want! Let's Start?

Mathematics Education Across Time and Place - Thomas O'Shea 2016-05-19

What is mathematics, and what aspects of it should be taught in schools? How and to whom should it be taught, and how should its understanding be assessed? These questions continue to drive curriculum development, school organization, teaching methods, and research agendas. No one today doubts that mathematics should be taught in our schools, but this was not always so. *Mathematics Education Across Time and Place* aims to help mathematics teachers, teacher educators, and anyone else interested in mathematics education appreciate the path this discipline has taken through the ages. To understand the historical and social context for schools and the place of mathematics within them, we meet a variety of mathematics educators from different times and places. Though fictional, their lives and social circumstances are based on historical documents and professional sources. They range from ancient Greece to modern Zimbabwe; from Persia to British Columbia; from Islamic Baghdad to revolutionary Paris; from Elizabethan England to twentieth-century New York; and from the rural one-room schools of North America to the modern comprehensive secondary school. By sharing the teachers' lives, we come to understand how they developed their love for teaching mathematics, and how their work fit into the larger social context of their time.

New General Mathematics - J.B. Channon 1991-02

Do Dice Play God? - Ian Stewart 2019-06-06
Uncertainty is everywhere. It lurks in every consideration of the future - the weather, the economy, the sex of an unborn child - even quantities we think that we know such as

populations or the transit of the planets contain the possibility of error. It's no wonder that, throughout that history, we have attempted to produce rigidly defined areas of uncertainty - we prefer the surprise party to the surprise asteroid. We began our quest to make certain an uncertain world by reading omens in livers, tea leaves, and the stars. However, over the centuries, driven by curiosity, competition, and a desire be better gamblers, pioneering mathematicians and scientists began to reduce wild uncertainties to tame distributions of probability and statistical inferences. But, even as unknown unknowns became known unknowns, our pessimism made us believe that some problems were unsolvable and our intuition misled us. Worse, as we realized how omnipresent and varied uncertainty is, we encountered chaos, quantum mechanics, and the limitations of our predictive power. Bestselling author Professor Ian Stewart explores the history and mathematics of uncertainty. Touching on gambling, probability, statistics, financial and weather forecasts, censuses, medical studies, chaos, quantum physics, and climate, he makes one thing clear: a reasonable probability is the only certainty.

The Green Tea Book - Lester A. Mitscher 1997-09-01

Discover the ancient Chinese secret to a long, healthy life—with just three cups of green tea per day. *The Green Tea Book* has been a trusted resource for almost a decade. Now, chemist Lester A. Mitscher and health writer Victoria Dolby Toews update their ground-breaking work with the latest scientific information. The "natural medicine" in green tea is polyphenols. These phytonutrients are powerful antioxidants, and Dr. Mitscher and Toews explore the research on green tea, explaining its many healing properties. You'll learn how drinking as few as three cups of green tea day a day may help: - reduce the risk of certain cancers and mitigate the side effects of cancer treatment; - promote a healthy heart; - boost immunity and detoxify the body; - support the body's natural antiaging processes; - prevent inflammation of teeth and gums, aid digestion, and so much more. *The Green Tea Book* guides readers to those teas highest in polyphenols, offering suggestions on choosing teas that one will savor

and enjoy. This one-stop resource will have readers convinced: taking one's medicine has never tasted so good.

The Mathematical Sciences in 2025 -

National Research Council 2013-05-13

The mathematical sciences are part of nearly all aspects of everyday life-the discipline has underpinned such beneficial modern capabilities as Internet search, medical imaging, computer animation, numerical weather predictions, and all types of digital communications. The *Mathematical Sciences in 2025* examines the current state of the mathematical sciences and explores the changes needed for the discipline to be in a strong position and able to maximize its contribution to the nation in 2025. It finds the vitality of the discipline excellent and that it contributes in expanding ways to most areas of science and engineering, as well as to the nation as a whole, and recommends that training for future generations of mathematical scientists should be re-assessed in light of the increasingly cross-disciplinary nature of the mathematical sciences. In addition, because of the valuable interplay between ideas and people from all parts of the mathematical sciences, the report emphasizes that universities and the government need to continue to invest in the full spectrum of the mathematical sciences in order for the whole enterprise to continue to flourish long-term.

Random Matrices - Madan Lal Mehta

2004-10-06

Random Matrices gives a coherent and detailed description of analytical methods devised to study random matrices. These methods are critical to the understanding of various fields in mathematics and mathematical physics, such as nuclear excitations, ultrasonic resonances of structural materials, chaotic systems, the zeros of the Riemann and other zeta functions. More generally they apply to the characteristic energies of any sufficiently complicated system and which have found, since the publication of the second edition, many new applications in active research areas such as quantum gravity, traffic and communications networks or stock movement in the financial markets. This revised and enlarged third edition reflects the latest developments in the field and convey a greater experience with results previously formulated. For example, the theory of skew-orthogonal and

bi-orthogonal polynomials, parallel to that of the widely known and used orthogonal polynomials, is explained here for the first time. Presentation of many new results in one place for the first time. First time coverage of skew-orthogonal and bi-orthogonal polynomials and their use in the evaluation of some multiple integrals.

Fredholm determinants and Painlevé equations. The three Gaussian ensembles (unitary, orthogonal, and symplectic); their n-point correlations, spacing probabilities. Fredholm determinants and inverse scattering theory. Probability densities of random determinants.

Green Synthesis in Nanomedicine and Human Health - Richard L. K. Glover 2021-03-10

Green synthesis is an emerging method for deriving nanoparticles present in natural plants for use in nanomedicine. Written by experts in the field, *Green Synthesis in Nanomedicine and Human Health* showcases the exciting developments of this specialty and its potential for promoting human health and well-being. This book gives practical information on novel preparation methods for identifying nanoparticles present in natural plants. It discusses applications of nanoparticles in combating communicable, non-communicable and vector-borne diseases. It also explores the potential for nanoparticles to combat antimicrobial resistance through improvements in treatment methods, diagnostics and drug delivery systems. Features scientific evidence of opportunities for integrating indigenous flora into nanomedicine to develop cost-effective therapeutic and diagnostic solutions for diseases, including cancer, tuberculosis, malaria and diabetes. Places green synthesis and nanomedicine in the African orthodox and traditional healthcare context. Provides policymakers with scientific evidence to inform policies for controlling or mitigating dangerous diseases. This book is essential reading for students, scientists, policymakers and practitioners of nanotechnology, and will appeal to anyone with an interest in integrating traditional African healthcare and Western medicine.

Advances of Artificial Intelligence in a Green Energy Environment - Pandian Vasant 2022-06-01

Advances of Artificial Intelligence in a Green

Energy Environment reviews the new technologies in intelligent computing and AI that are reducing the dimension of data coverage worldwide. This handbook describes intelligent optimization algorithms that can be applied in various branches of energy engineering where uncertainty is a major concern. Including AI methodologies and applying advanced evolutionary algorithms to real-world application problems for everyday life applications, this book considers distributed energy systems, hybrid renewable energy systems using AI methods, and new opportunities in blockchain technology in smart energy. Covering state-of-the-art developments in a fast-moving technology, this reference is useful for engineering students and researchers interested and working in the AI industry. Looks at new techniques in artificial intelligence (AI) reducing the dimension of data coverage worldwide Chapters include AI methodologies using enhanced hybrid swarm-based optimization algorithms Includes flowchart diagrams for exemplifying optimizing techniques

Understanding Engineering Mathematics - Bill Cox 2001-12-11

Students today enter engineering courses with a wide range of mathematical skills, due to the many different pre-university qualifications studied. Bill Cox's aim is for students to gain a thorough understanding of the maths they are studying, by first strengthening their background in the essentials of each topic. His approach allows a unique self-paced study style, in which students Review their strengths and weaknesses through self-administered diagnostic tests, then focus on Revision where they need it, to finally Reinforce the skills required. Understanding Engineering Mathematics is structured around a highly successful 'transition' maths course at Aston University which has demonstrated a clear improvement in students' achievement in mathematics, and has been commended by QAA Subject Review and engineering accreditation reports. A core undergraduate text with a unique interactive style that enables students to diagnose their strengths and weaknesses and focus their efforts where needed Ideal for self-paced self-study and tutorial work, building from an initially supportive approach to the

development of independent learning skills Lots of targeted examples and exercises

The Math of Life and Death - Kit Yates 2021-04-27

"Few of us really appreciate the full power of math--the extent to which its influence is not only in every office and every home, but also in every courtroom and hospital ward. In this ... book, Kit Yates explores the true stories of life-changing events in which the application--or misapplication--of mathematics has played a critical role: patients crippled by faulty genes and entrepreneurs bankrupted by faulty algorithms; innocent victims of miscarriages of justice; and the unwitting victims of software glitches"--Publisher marketing.

Zimbabwe National Bibliography - 1995

Core Maths Advanced Level 3rd Edition - L. Bostock 2014-11-01

Written by the renowned author team of Bostock and Chandler, this best-selling textbook covers all major A Level Mathematics specifications. Suitable for all points of entry to Advanced Level with appropriate supporting material in the early sections of the books. Each chapter contains a variety of exercises and questions for practice and preparation. Extended summary sections reinforce and consolidate learning.

Additional Mathematics for O Level - Akudziwe Mawere 2021-06-05

This textbook covers comprehensively the Pure Mathematics components of the Additional Mathematics IGCSE/ O Level syllabi of most examining boards including CIE, Edexcel and ZIMSEC. It is structured in a way that makes it easier for O Level students to self-study the subject within a year. There are exercises within and at the end of each chapter. A good study companion in the study of O Level Additional Mathematics.

Advanced Mathematics for Applications - Andrea Prosperetti 2011-01-06

The partial differential equations that govern scalar and vector fields are the very language used to model a variety of phenomena in solid mechanics, fluid flow, acoustics, heat transfer, electromagnetism and many others. A knowledge of the main equations and of the methods for analyzing them is therefore essential to every working physical scientist and

engineer. Andrea Prosperetti draws on many years' research experience to produce a guide to a wide variety of methods, ranging from classical Fourier-type series through to the theory of distributions and basic functional analysis. Theorems are stated precisely and their meaning explained, though proofs are mostly only sketched, with comments and examples being given more prominence. The book structure does not require sequential reading: each chapter is self-contained and users can fashion their own path through the material. Topics are first introduced in the context of applications, and later complemented by a more thorough presentation.

The Routledge Handbook of Disability in Southern Africa - Tsitsi Chataika 2018-07-27

This comprehensive ground-breaking southern African-centred collection spans the breadth of disability research and practice. Reputable and emerging scholars, together with disability advocates adopt a critical and interdisciplinary stance to prove, challenge and shift commonly held social understanding of disability in traditional discourses, frontiers and practices in prominent areas such as inter/national development, disability studies, education, culture, health, religion, gender, sports, tourism, ICT, theatre, media, housing and legislation.

This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa. Through drawing upon and introducing resources from several disciplines, theoretical perspectives and personal narratives from disability activists, it reflects on disability and sustainable development in southern Africa. It also addresses a clear need to bring together interdisciplinary perspectives and narratives on disability and sustainable development in ways that do not undermine disability politics advanced by disabled people across the world. The handbook further acknowledges and builds upon the huge body of literature that understands the social, cultural, educational, psychological, economic, historical and political facets of the exclusion of disabled people. The handbook covers the following broad themes: • Disability inclusion, ICT and sustainable development • Access to education, from early childhood development up to higher education •

Disability, employment, entrepreneurship and community-based rehabilitation • Religion, gender and parenthood • Tourism, sports and accessibility • Compelling narratives from disability activists on societal attitudes toward disability, media advocacy, accessible housing and social exclusion. Thus, this much-awaited handbook provides students, academics, practitioners, development partners, policy makers and activists with an authoritative framework for critical thinking and debates that inform policy and practice in incomparable ways, with the view to promoting inclusive and sustainable development.

Primary Mathematics - Penelope Serow 2019-08-07

Provides a comprehensive introduction to teaching and learning mathematics in today's classrooms.

From Poverty to Power - Duncan Green 2008

Offers a look at the causes and effects of poverty and inequality, as well as the possible solutions. This title features research, human stories, statistics, and compelling arguments. It discusses about the world we live in and how we can make it a better place.

Green Book for the Renewal of Public Education in Hungary - Benő Csapó 2009

Mathematical and Physical Fundamentals of Climate Change - Zhihua Zhang 2014-12-06

Mathematical and Physical Fundamentals of Climate Change is the first book to provide an overview of the math and physics necessary for scientists to understand and apply atmospheric and oceanic models to climate research. The book begins with basic mathematics then leads on to specific applications in atmospheric and ocean dynamics, such as fluid dynamics, atmospheric dynamics, oceanic dynamics, and glaciers and sea level rise. Mathematical and Physical Fundamentals of Climate Change provides a solid foundation in math and physics with which to understand global warming, natural climate variations, and climate models. This book informs the future users of climate models and the decision-makers of tomorrow by providing the depth they need. Developed from a course that the authors teach at Beijing Normal University, the material has been extensively class-tested and contains online resources, such

as presentation files, lecture notes, solutions to problems and MATLAB codes. Includes MatLab and Fortran programs that allow readers to create their own models Provides case studies to

show how the math is applied to climate research Online resources include presentation files, lecture notes, and solutions to problems in book for use in classroom or self-study