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Mathematical Analysis With Applications Sandra Pinelas 2020-05-26 This proceedings volume covers research in key areas of applied mathematical analysis, and gathers works presented at the international conference “Concord-90,” in honor of the 90th birthday of Professor Constantin Corduneanu (1928-2018). The event – which Professor Corduneanu was able to attend – was held at Ural Federal University in Ekaterinburg, Russia, on July 26-28, 2018. Professor Corduneanu’s research in mathematical analysis spanned nearly seven decades and explored a range of important issues in the field, including studies of global existence, stability problems, and oscillation theory, with special emphasis on various classes of nonlinear equations. He published over two hundred articles and several books, including “Almost Periodic Oscillations and Waves” (Springer, 2009). In this volume the reader will find selected, peer-reviewed articles from seven fields of research – Differential Equations, Optimal Control and Stabilization; Stochastic Methods; Topology and Functions Approximation; Mathematical Biology and Bioinformatics; Mathematical Modeling in Mining; Mathematical Modeling in Economics; and Computer Science and Image Processing – which honor and reflect Professor Corduneanu’s legacy in the fields of oscillation, stability and control theory.

Genome Invading RNA Networks Guenther Witzany 2018-05-11 A new paradigmatic understanding of evolution, genetic novelty, code-generating, genome-formatting factors, infectious RNA Networks, viruses and other natural genetic content operators.

Fundamentals of Telecommunications Roger L. Freeman 2005-05-20 The Second Edition of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You’ll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication.

Artificial Intelligence in Oncology Drug Discovery and Development John Cassidy 2020-09-09 There exists a profound conflict at the heart of oncology drug development. The efficiency of the drug development process is falling, leading to higher costs per approved drug, at the same time personalised medicine is limiting the target market of each new medicine. Even as the global economic burden of cancer increases, the current paradigm in drug development is unsustainable. In this book, we discuss the development of techniques in machine learning for improving the efficiency of oncology drug

development and delivering cost-effective precision treatment. We consider how to structure data for drug repurposing and target identification, how to improve clinical trials and how patients may view artificial intelligence.

Water and Wastewater Calculations Manual, 2nd Ed. Shun Dar Lin 2007-07-17 Quick Access to the Latest Calculations and Examples for Solving All Types of Water and Wastewater Problems! The Second Edition of Water and Wastewater Calculations Manual provides step-by-step calculations for solving a myriad of water and wastewater problems. Designed for quick-and-easy access to information, this revised and updated Second Edition contains over 110 detailed illustrations and new material throughout. Written by the internationally renowned Shun Dar Lin, this expert resource offers techniques and examples in all sectors of water and wastewater treatment. Using both SI and US customary units, the Second Edition of Water and Wastewater Calculations Manual features: Coverage of stream sanitation, lake and impoundment management, and groundwater Conversion factors, water flow calculations, hydraulics in pipes, weirs, orifices, and open channels, distribution, outlets, and quality issues In-depth emphasis on drinking water treatment and water pollution control technologies Calculations specifically keyed to regulation requirements New to this edition: regulation updates, pellet softening, membrane filtration, disinfection by-products, health risks, wetlands, new and revised examples using field data Inside this Updated Environmental Reference Tool • Streams and Rivers • Lakes and Reservoirs • Groundwater • Fundamental and Treatment Plant Hydraulics • Public Water Supply • Wastewater Engineering • Appendices: Macro invertebrate Tolerance List • Well Function for Confined Aquifers • Solubility Product Constants for Solution at or near Room Temperature • Freundlich Adsorption Isotherm Constants for Toxic Organic Compounds • Conversion Factors

Area and Volume Alpha & Omega Publishing 2001-03

Sorghum Molecular Breeding R. Madhusudhana 2015-08-20 This book provides an up-to-date overview of international research work on sorghum. Its comprehensive coverage of our current understanding of transgenic development in sorghum and the strategies that are being applied in molecular breeding make this book unique. Important areas such as genetic diversity, QTL mapping, heterosis prediction, genomic and bioinformatics resources, post-genome sequencing developments, molecular markers development using bioinformatics tools, genetic transformation and transgenic research are also addressed. The availability of the genome sequence along with other recent developments in sequencing and genotyping technologies has resulted in considerable advances in the area of sorghum genomics. These in turn have led to the generation of a large number of DNA-based markers and resulted in the identification and fine mapping of QTL associated with grain yield, its component traits, biotic and abiotic stress tolerance as well as grain quality traits in sorghum. Though a large volume of information has accumulated over the years, especially following the sequencing of the sorghum genome, until now it was not available in a single reference resource. This book fills that gap by documenting advances in the genomics and transgenic research in sorghum and presenting critical reviews and future prospects. "Sorghum Molecular Breeding" is an essential guide for students, researchers and managers who are involved in the area of molecular breeding and transgenic research in sorghum and plant biologists in general.

Places of Memory and Legacies in an Age of Insecurities and Globalization Gerry O'Reilly 2020-12-03 In this book, practitioners and students discover perspectives on landscape, place, heritage, memory, emotions and geopolitics intertwined in evolving citizenship and democratization debates. This volume shows how memorialization can contribute to wider inclusive interpretations of history, tourism and human rights promoted by the European Project. It's geographies of memories can foster

cooperation as witnessed throughout Europe during the 2014-18 WWI commemorations. Due to new world orders, geopolitical reconfigurations and ideals that emerged after 1918, many countries ranging from the Baltic and Russia to the Balkans, Turkey and Greece, eastern and central Europe to Ireland are continuing with commemorations regarding their specific memories in the wider Europe. Shared memorial spaces can act in post conflict areas as sites of reconciliation; nonetheless 'the peace' cannot be taken for granted with insecurities, globalization, and nationalisms in the USA and Russia; the UK's Brexit stress and populist movements in Western Europe, Visegrád and Balkan countries. Citizen-fatigue is reflected in socio-political malaise mirrored in France's Yellow Vest movement and elsewhere. Empathy with other peoples' places of memory can assist citizens learn from the past. Memory sites promoted by the EU, Council of Europe and UNESCO may tend to homogenize local memories; nevertheless, they act as vectors in memorialization, stimulating debate and re-evaluating narratives. This textbook combines geographical, inter-cultural and inter-disciplinary approaches and perspectives on spaces of memory by a range of authors from different countries and traditions offers the reader diverse and holistic perspectives on cultural geography, dynamic geopolitics, globalization and citizenship.

Russian Assessments and Applications of the Correlation of Forces and Means Clint Reach 2020-06-30
The authors examine how Russia assesses and applies the correlation of forces and means-the military balance between two opponents at the global, regional, and local levels-and outline recent relevant developments in Russian military thought.

Annual Report; 2011-2012 Harvard University Museum of Compara 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Special Needs Education South Africa. Department of Education 2001

Study and Master Life Sciences Grade 11 CAPS Study Guide Gonasagaren S. Pillay 2014-08-21

THE EARLY GRADE READING ASSESSMENT Amber K. Gove 2011-09-28 The Early Grade Reading Assessment (EGRA) measures students' progress towards reading. EGRA gauges early literacy skills through a 15-minute individual oral assessment of five fundamental reading skills. RTI worked with education experts to develop the EGRA in 2006, and it has been piloted and implemented in more than 40 countries. This volume aims to take stock of the substantial amount of information and experience generated through the use of EGRA, and to share this knowledge with practitioners, policymakers, and international donors. Chapters cover not only particular applications of the instrument but also put EGRA in the context of broader issues and developments in literacy and education.

Vectors Raymond L. Rodriguez 2014-05-20 *Vectors: A Survey of Molecular Cloning Vectors and Their Uses* focuses on the functions of molecular cloning vectors. The book first discusses bacterial plasmid pBR322. Topics include criteria for plasmid vector design, construction and structure, transcriptional signals, DNA replication, recombination, mobilization, and plasmid stability. The text also examines

bacteriophage lambda cloning vectors; filamentous phages as cloning vectors; chimeric single-stranded DNA phage-plasmid cloning vectors; and phage-plasmid hybrid vectors. The selection discusses cosmids and plasmid positive selection vectors, including library and construction, cosmid rescue, and positive selection vectors using plasmid-encoded lethal function. The text also examines vectors for regulating expression of cloned DNA, including lambda promoters, secretion vectors, and protein fusion vectors. The book takes a look at vectors with adjustable copy numbers. Copy number and protein production; adjustable copy number vectors; future expression vectors; rate-limiting steps of protein production; and promoters and ribosome binding sites are explained. The text puts emphasis on vectors for the synthesis of specific RNAs in vitro and cloning vectors for gram-positive bacteria. The selection is a valuable source of data for readers interested in molecular cloning vectors.

Cryptography in C and C++ Michael Welschenbach 2017-01-11 This book covers everything you need to know to write professional-level cryptographic code. This expanded, improved second edition includes about 100 pages of additional material as well as numerous improvements to the original text. The chapter about random number generation has been completely rewritten, and the latest cryptographic techniques are covered in detail. Furthermore, this book covers the recent improvements in primality testing.

Physical Science National Learning Corporation 1988-06 The DSST Subject Standardized Tests are comprehensive college and graduate level examinations given by the Armed Forces, colleges and graduate schools. These exams enable students to earn college credit for what they have learned through self-study, on the job, or by other non-traditional means. The DSST Physical Science Passbook® prepares candidates for the DSST exam, which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: physics; electricity and magnetism; matter; chemical reactions; atomic structure; and more.

Quantum States of Light Akira Furusawa 2015-12-10 This book explains what quantum states of light look like. Of special interest, a single photon state is explained by using a wave picture, showing that it corresponds to the complementarity of a quantum. Also explained is how light waves are created by photons, again corresponding to the complementarity of a quantum. The author shows how an optical wave is created by superposition of a "vacuum" and a single photon as a typical example. Moreover, squeezed states of light are explained as "longitudinal" waves of light and Schrödinger's cat states as macroscopic superposition states.

Situation Awareness with Systems of Systems Piërre van de Laar 2013-02-03 This book discusses various aspects, challenges, and solutions for developing systems-of-systems for situation awareness, using applications in the domain of maritime safety and security. Topics include advanced, multi-objective visualization methods for situation awareness, stochastic outlier selection, rule-based anomaly detection, an ontology-based event model for semantic reasoning, new methods for semi-automatic generation of adapters bridging communication gaps, security policies for systems-of-systems, trust assessment, and methods to deal with the dynamics of systems-of-systems in run-time monitoring, testing, and diagnosis. Architectural considerations for designing information-centric systems-of-systems such as situation awareness systems, and an integrated demonstrator implementing many of the investigated aspects, complete the book.

The St. Martin's Guide to Writing Short Edition Rise B. Axelrod 2007-03-07

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Advanced Geotechnical Engineering Chandrakant S. Desai 2013-11-27 Soil-structure interaction is an area of major importance in geotechnical engineering and geomechanics *Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models* covers computer and analytical methods for a number of geotechnical problems. It introduces the main factors important to the application of computer

Alone Cyn Balog 2017-11-07 This must-read for lovers of Stephen King's *The Shining* will leave readers breathless as Seda and her family find themselves at the mercy of a murderer in an isolated and snowbound hotel. Get ready for what Kirkus calls "A bloody, wonderfully creepy scare ride." When her mom inherits an old, crumbling mansion, Seda's almost excited to spend the summer there. The grounds are beautiful and it's fun to explore the sprawling house with its creepy rooms and secret passages. Except now her mom wants to renovate, rather than sell the estate—which means they're not going back to the city...or Seda's friends and school. As the days grow shorter, Seda is filled with dread. They're about to be cut off from the outside world, and she's not sure she can handle the solitude or the darkness it brings out in her. Then a group of teens get stranded near the mansion during a blizzard. Seda has no choice but to offer them shelter, even though she knows danger lurks in the dilapidated mansion—and in herself. And as the snow continues to fall, what Seda fears most is about to become her reality...

Academic Literacy Development Laura-Mihaela Muresan 2021-03-11 This edited book brings together an international cast of contributors to examine how academic literacy is learned and mastered in different tertiary education settings around the world. Bringing to the fore the value of qualitative enquiry through ethnographic methods, the authors illustrate in-depth descriptions of genre knowledge and academic literacy development in first and second language writing. All of the data presented in the chapters are original, as well as innovative in the field in terms of content and scope, and thought-provoking regarding theoretical, methodological and educational approaches. The contributions are also representative of both novice and advanced academic writing experiences, providing further insights into different stages of academic literacy development throughout the career-span of a researcher. Set against the backdrop of internationalisation trends in Higher Education and the pressure on multilingual academics to publish their research outcomes in English, this volume will be of use to academics and practitioners interested in the fields of Languages for Academic Purposes, Applied Linguistics, Literacy Skills, Genre Analysis and Acquisition and Language Education.

Bioinformatics for Geneticists Michael R. Barnes 2003-07-01

Annual Report; 2010/2011 Harvard University Museum of Compara 2021-09-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

An African Elegy Ben Okri 2015-04-30 Dreams are the currency of Okri's writing, particularly in this first book of poems, *An African Elegy*, but also in his books of short stories and prize-winning novel *The Famished Road*. Okri's dreams are made on the stuff of Africa's colossal economic and political problems,

and reading the poems is to experience a constant succession of metaphors of resolution in both senses of the word. Virtually every poem contains an exhortation to climb out of the African miasma, and virtually every poem harvests the dream of itself with an upbeat restorative ending' - Giles Foden, Times Literary Supplement

Tourism and Hospitality Studies Irfan Yazicioglu 2020-12-16 This book discusses "tourism and hospitality" from different perspectives and disciplines. In addition, this book, considering the tourism and hotel management terminology, is expected to be a source book for the theoretical and practical scientific studies in the fields which is in close relationship such as gastronomy, recreation and marketing.

Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future

Theodor Borangiu 2019-08-02 This proceedings book presents selected peer-reviewed papers from the 9th International Workshop on 'Service Oriented, Holonic and Multi-agent Manufacturing Systems for the Industry of the Future' organized by Universitat Politècnica de València, Spain, and held on October 3-4, 2019. The SOHOMA 2019 Workshop aimed to foster innovation in the digital transformation of manufacturing and logistics by promoting new concepts and methods and solutions through service orientation in holonic and agent-based control with distributed intelligence. The book provides insights into the theme of the SOHOMA'19 Workshop - 'Smart anything everywhere - the vertical and horizontal manufacturing integration, ' addressing 'Industry of the Future' (IoF), a term used to describe the 4th industrial revolution initiated by a new generation of adaptive, fully connected, analytical and highly efficient robotized manufacturing systems. This global IoF model describes a new stage of manufacturing, that is fully automatized and uses advanced information, communication and control technologies such as industrial IoT, cyber-physical production systems, cloud manufacturing, resource virtualization, product intelligence, and digital twin, edge and fog computing. It presents the IoF interconnection of distributed manufacturing entities using a 'system-of-systems' approach, discussing new types of highly interconnected and self-organizing production resources in the entire value chain; and new types of intelligent decision-making support based on from real-time production data collected from resources, products and machine learning processing. This book is intended for researchers and engineers working in the manufacturing value chain, and specialists developing computer-based control and robotics solutions for the 'Industry of the Future'. It is also a valuable resource for master's and Ph.D. students in engineering sciences programs.

Die Suid-Afrikaanse wiskunde-olimpiade Suid-Afrikaanse Akademie vir Wetenskap en Kuns 1976

Number Patterns 1 Nuffield Mathematics Project 1973

Buckling of Bars, Plates, and Shells Don Orr Brush 1975

Teaching Mathematical Modelling: Connecting to Research and Practice Gloria Ann Stillman 2013-10-27 This book provides readers with an overview of recent international research and developments in the teaching and learning of modelling and applications from a variety of theoretical and practical perspectives. There is a strong focus on pedagogical issues for teaching and learning of modelling as well as research into teaching and practice. The teaching of applications of mathematics and mathematical modelling from the early years through primary and secondary school and at tertiary level is rising in prominence in many parts of the world commensurate with an ever-increasing usage of mathematics in business, the environment, industry and everyday life. The authors are all members of the International Community of Teachers of Mathematical Modelling and Applications and important researchers in mathematics education and mathematics. The book will be of interest to teachers,

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practitioners and researchers in universities, polytechnics, teacher education, curriculum and policy.

Digital PCR George Karlin-Neumann 2018-05-01 This volume explores and explains how digital PCRs (dPCRs) help in the study of numerous topics, such as infectious diseases, evolution of cancer and treatment responses, somatic mosaicism, genome editing and cell therapy, and food testing for GMOs and pathogens. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and thorough, Digital PCR: Methods and Protocols is a valuable resource for specialists in various fields, including geneticists, neurologists, immunologists, oncologists, and researchers who are interested in environmental sciences."

Discrete Mathematics and Its Applications Kenneth Rosen 2006-07-26 Discrete Mathematics and its Applications, Sixth Edition, is intended for one- or two-term introductory discrete mathematics courses taken by students from a wide variety of majors, including computer science, mathematics, and engineering. This renowned best-selling text, which has been used at over 500 institutions around the world, gives a focused introduction to the primary themes in a discrete mathematics course and demonstrates the relevance and practicality of discrete mathematics to a wide a wide variety of real-world applications...from computer science to data networking, to psychology, to chemistry, to engineering, to linguistics, to biology, to business, and to many other important fields.

Twenty Years of Education Transformation in Gauteng 1994 to 2014 Maringe, Felix 2015-05-05 Twenty Years of Education Transformation in Gauteng 1994 to 2014: An Independent Review presents a collection of 15 important essays on different aspects of education in Gauteng since the advent of democracy in 1994. These essays talk to what a provincial education department does and how and why it does these things - whether it be about policy, resourcing or implementing projects. Each essay is written by one or more specialist in the relevant focus area. The book is written to be accessible to the general reader as well as being informative and an essential resource for the specialist reader. It sheds light on aspects of how a provincial department operates and why and with what consequences certain decisions have been made in education over the last 20 turbulent years, both nationally and provincially. There has been no attempt to fit the book's chapters into a particular ideological or educational paradigm, and as a result the reader will find differing views on various aspects of the Gauteng Department of Education's present and past. We leave the reader to decide to what extent the GDE has fulfilled its educational mandate over the last 20 years.

Lord of the Flies Martin Jarvis 2008-07-01

Life Sciences, Grade 12 Gonasagaren S. Pillay 2014-06-26

Gaussian States in Quantum Information Alessandro Ferraro 2005

National Nutrition Week Mahira Mahira Publishing 2021-08-05 This National Nutrition day 120 Pages Ruled Notebook for Girl and Boys. This notebook is perfect for Christmas, thanksgiving and birthday gift. This Notebook features: Perfectly sized at 6" x 9" Inches Black & Large notebook Matte Finish Cover perfect gift for Christmas ■ Birthday ■ any special occasion 100 High Quality Pages

The Thirteen Books of Euclid's Elements; Volume 2 Johan Ludvig Heiberg 2018-10-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization

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as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Problem Solving Through Recreational Mathematics Bonnie Averbach 2012-03-15 Fascinating approach to mathematical teaching stresses use of recreational problems, puzzles, and games to teach critical thinking. Logic, number and graph theory, games of strategy, much more. Includes answers to selected problems. Free solutions manual available for download at the Dover website.