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Mathematics Education Jacqueline Dewar 2016-11-26 Many in the mathematics community in the U.S. are involved in mathematics education in various capacities. This book highlights the breadth of the work in K-16 mathematics education done by members of US departments of mathematical sciences. It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education, quantitative literacy, informal education, writing and communication, social justice, outreach and mentoring, tactile learning, art and mathematics, ethnomathematics, scholarship of teaching and learning, and mathematics education research. Contributors describe their work, its impact, and how it is perceived and valued. In addition, there is a chapter, co-authored by two mathematicians who have become administrators, on the challenges of supporting, evaluating, and rewarding work in mathematics education in departments of mathematical sciences. This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community. The writing is expository, not technical, and should be accessible and informative to a diverse audience. The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities, and their administrators, as well as graduate students. Researchers in education may also find topics of interest. Other potential readers include those doing work in mathematics education in schools of education, and teachers of secondary or middle school mathematics as well as those involved in their professional development.

Combinatorics on Words Florin Manea 2015-08-26 This book constitutes the refereed proceedings of the 10th International Conference on Combinatorics on Words, WORDS 2015, held in Kiel, Germany, in September 2015 under the auspices of the EATCS. The 14 revised full papers presented were carefully reviewed and selected from 22 submissions. The main object in the contributions are words, finite or infinite sequences of symbols over a finite alphabet. The papers reflect both theoretical contributions related to combinatorial, algebraic, and algorithmic aspects of words, as well as to contributions presenting applications of the theory of words in other field of computer science, linguistics, biology, bioinformatics, or physics.

ICSE 10 Years Solved Papers Class 10 for 2022 Examinations Panel of Authors Arundeep's ICSE 10 Years Solved Papers for Class X develops deep understanding of the subject and will help you excel in your Board Exams of 2021. ICSE 10 Years Solved Question Paper Highlights: It includes all the 15 subject papers English I, English II, Hindi, Physics, Chemistry, Biology, Mathematics, History and Civics, Geography, Commercial Studies, Commercial Applications, Economics, Economics Applications, Computer Application and Physical Education, Prepare thoroughly with the latest CISCE Curriculum question papers and solved answers from 2011 - 2021 Get familiarized with the Style and Type of questions Proper marking schemes applied for Self Assessment Special topic on Creating Vision Board, maintaining Study Log and Tips on Exam Countdown.

Oswaal One For All Olympiad Previous Years' Solved Papers, Class-3 Mathematics Book (For 2022-23 Exam) Oswaal Editorial Board 2022-06-14 As per the Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years' Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions--Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & 'Did You Know?' Concept Review with Examples Latest Sample Papers with complete solutions

The Education Invasion Joy Pullmann 2017-03-14 Most Americans had no idea what Common Core was in 2013, according to polls. But it had been creeping into schools nationwide over the previous three years, and children were feeling its effects. They cried over math homework so mystifying their parents could not help them, even in elementary school. They read motley assortments of "informational text" instead of classic literature. They dreaded the high-stakes tests, in unfamiliar formats, that were increasingly controlling their classrooms. How did this latest and most sweeping "reform" of American education come in mostly under the radar? Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers, and it led to a big tangle of history and politics, intrigue and arrogance. She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K–12 classes, and how the Obama administration pressured states to adopt them. Thus a federalized education scheme took root, despite legal prohibitions against federal involvement in curriculum. Common Core and its testing regime were touted as "an absolute game-changer in public education," yet the evidence so far suggests that kids are actually learning less under it. Why, then, was such a costly and disruptive agenda imposed on the nation's schools? Who benefits? And how can citizens regain local self-governance in education, so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats? The Education Invasion offers answers and remedies.

The 2016-17 Budget California. Legislature. Joint Legislative Budget Committee. Legislative Analyst 2016

Oswaal CBSE Accountancy, English Core, Business Studies & Mathematics Class 12 Sample Question Papers + Question Bank (Set of 8 Books) for 2023 Board Exam (based on CBSE Sample Paper released on 16th September) Oswaal Editorial Board 2022-10-22 CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 is one of the best CBSE Reference Books for the Class 12 Accountancy, English Core, Business Studies & Mathematics board exam. It includes Latest Solved Board Sample Papers with Marking scheme 2022- 2023 which were released on 16th September 2022 for enhanced learning. On top of that, 5 Sample Question Papers which have high chances of appearing in the CBSE board exam 2023 are included in this best CBSE Reference Book for Class 12 Physics, Chemistry, Biology board exam. These 5 sample question papers are available for free on Oswaal 360 website for students. The CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 contains 10 Sample Papers which further comprise 5 Solved & 5 Self-Assessment Papers. This is strictly designed as per the latest CBSE Sample Paper released on 16th September '2022 to keep

students updated with CBSE guidelines. CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 comes with CBSE Board Sample Paper 2023 analysis to provide better exam clarity to the students. It includes On-Tips Notes & Revision Notes for Quick Revision and robust preparation. The best CBSE Reference Book for Class 12 Accountancy, English Core, Business Studies & Mathematics contains some of the best-advanced learning tools such as Mind Maps & Mnemonics with 1000+concepts to make learning easier and more advanced for students. To top it all, 500+ Questions are also included for practice in the CBSE Accountancy, English Core, Business Studies & Mathematics 2022-2023. The right amount of practice with this book will lead to desired results for class 12 students. CBSE Sample Paper Class 12 Accountancy, English Core, Business Studies & Mathematics 2022-2023 when practised with focus and precision will produce desired results. When the students practice with this best CBSE Reference Book for Class 12 Accountancy, English Core, Business Studies & Mathematics board exam for a considerable amount of time then they are sure to score highest marks.

Mathematics and Multi-Ethnic Students Yvelyne Germain-McCarthy 2017-05-25 Mathematics and Multi-Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations. In this revised edition, Yvelyne Germain-McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies. A third new chapter introduces the concept of the Life-Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed. Featuring useful framing tools including the Discussion with Colleagues and Commentary sections, Mathematics and Multi-Ethnic Students translates concrete instances of access and equity into generalized problem-solving methods for promoting ethnic diversity across grade levels. An important resource for pre-service and in-service educators, researchers, administrators, and policy makers, this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction. By uniting the goals of multicultural education with those of the mathematics curriculum, educators will learn to conceptualize and implement best practices for effective, equitable teaching and learning of mathematics for their students.

Debunk This! Matt Palumbo 2019-08-20 Countless studies have proven that over 90 percent of Trump-related news coverage is negative, and the percentage of journalists that identify as Republicans are in the single digits. When liberals are running the show, you can bet that their narrative has gone unchallenged. If you tell a lie long enough people will begin to believe it, and that's certainly the case with so many liberal myths that have become accepted as conventional wisdom. In this book you'll learn, among many other facts: What happened to non-gun mass killings when Australia enacted strict gun control.The truth about "Scandinavian socialism."How Obama twisted the numbers to appear tough on immigration.Why Mexico has stricter immigration laws than the US.How Bill Clinton faked the "Clinton surplus."That the US doesn't have the majority of the world's mass shootings.Why statistics claiming that illegal aliens commit fewer crimes than the general public are bogus.The countless lies the media simply made up about the Trump administration.If you're in need of ammunition to shoot down liberal lies, this is the book for you.

Teaching Computing Henry M. Walker 2018-04-24 Teaching can be intimidating for beginning faculty. Some graduate schools and some computing faculty provide guidance and mentoring, but many do not. Often, a new faculty member is assigned to teach a course, with little guidance, input, or feedback. Teaching Computing: A Practitioner's Perspective addresses such challenges by providing a solid resource for both new and experienced computing faculty. The book serves as a practical, easy-to-use resource, covering a wide range of topics in a collection of focused down-to-earth chapters. Based on the authors' extensive teaching experience and his teaching-oriented columns that span 20 years, and informed by computing-education research, the book provides numerous elements that are designed to connect with teaching practitioners, including: A wide range of teaching topics and

basic elements of teaching, including tips and techniques Practical tone; the book serves as a down-to-earth practitioners' guide Short, focused chapters Coherent and convenient organization Mix of general educational perspectives and computing-specific elements Connections between teaching in general and teaching computing Both historical and contemporary perspectives This book presents practical approaches, tips, and techniques that provide a strong starting place for new computing faculty and perspectives for reflection by seasoned faculty wishing to freshen their own teaching.

Progress in Mathematics Rose A. McDonnell 2006

The Schenley Experiment Jake Oresick 2017-05-05 The Schenley Experiment is the story of Pittsburgh's first public high school, a social incubator in a largely segregated city that was highly—even improbably—successful throughout its 156-year existence. Established in 1855 as Central High School and reorganized in 1916, Schenley High School was a model of innovative public education and an ongoing experiment in diversity. Its graduates include Andy Warhol, actor Bill Nunn, and jazz virtuoso Earl Hines, and its prestigious academic program (and pensions) lured such teachers as future Pulitzer Prize winner Willa Cather. The subject of investment as well as destructive neglect, the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt. Integrated decades before Brown v. Board of Education, Schenley succumbed to default segregation during the "white flight" of the 1970s; it rose again to prominence in the late 1980s, when parents camped out in six-day-long lines to enroll their children in visionary superintendent Richard C. Wallace's reinvigorated school. Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh, officials closed the school in 2008, citing over $50 million in necessary renovations—a controversial event that captured national attention. Schenley alumnus Jake Oresick tells this story through interviews, historical documents, and hundreds of first-person accounts drawn from a community indelibly tied to the school. A memorable, important work of local and educational history, his book is a case study of desegregation, magnet education, and the changing nature and legacies of America's oldest public schools.

Oswaal CBSE Accountancy, English Core, Business Studies & Mathematics Class 11 Sample Question Papers + Question Bank (Set of 8 Books) (For 2023 Exam) Oswaal Editorial Board 2022-10-22 This product covers the following: • 10 Sample Papers-5 Solved & 5 Self-Assessment Papers strictly designed as per the latest CBSE Sample Paper released on 16th September'2022 • 2023 Board Sample Paper analysis • On-Tips Notes & Revision Notes for Quick Revision • Mind Maps & Mnemonics with 1000+concepts for better learning • 200+MCQs & Objective Type Questions for practice

Numeracy and Learning Difficulties 2nd ed. Peter Westwood 2016-01-01 The 2nd edition of Peter Westwood's best-selling Numeracy and Learning Difficulties addresses recent initiatives around the teaching of numeracy, the increased focus on numeracy standards, and international research around numeracy teaching, learning and pedagogy. Drawing on research from the fields of developmental and cognitive psychology, Peter Westwood presents a case for high-quality 'first teaching' to prevent students failing in the initial acquisition of numeracy skills. Numeracy and Learning Difficulties provides guidance on how to develop flexible teaching methods and strategies to improve mathematical skills of students. It discusses common areas of learning difficulty in mathematics and looks at ways teachers can determine gaps in students' knowledge, as well as how to develop curricula and problem-solving strategies to address these gaps. In the Learning Difficulties series, Peter Westwood evaluates, summarises and presents research, strategies and best-practice methodologies for working with students that have learning difficulties in particular subject areas. Rigorous yet accessible, the titles in this series provide teachers with the knowledge, data and direction they need to develop their skills and meet student needs.

Understanding Child Development Rosalind Charlesworth 2016-01-01 UNDERSTANDING CHILD

DEVELOPMENT, 10th Edition, introduces pre-service and inservice teachers to the unique qualities of young children from infants to age eight, and demonstrates how to work with each child in ways that correspond with their developmental level, and their social and cultural environment. Now organized into 15 chapters, the book includes learning theories and research as well as information about the importance of play and technology in a young child's learning process. Learning objectives and specific NAEYC Program Standards, Accreditation Criteria, and Developmentally Appropriate Practices (DAP) are highlighted at the beginning of each chapter. Other topics covered include readiness, assessment, working with children and families from diverse cultures, working with children with special needs, and the early stages of reading, writing, and general cognitive development. Throughout the text, real-life examples and anecdotes bring theory and research to life Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Karnataka PUE Solved Papers II PUC English, Physics, Chemistry & Mathematics (Set of 4 Books) (For 2023 Exam) Oswaal Editorial Board 2022-09-01 Latest Solved Paper with Scheme of Valuation-2022. Strictly as per the latest syllabus, blueprint & design of the question paper. All Typologies-Objective, VSA, SA & Essay Types Questions Previous Years' Exam(2011-2022) Questions with Scheme of Valuation NCERT Textbook Questions fully solved PUE Question Bank Fully solved Revision notes, Mind Maps & Concept videos for clarity of Concepts

International Conference on Applications and Techniques in Cyber Security and Intelligence Jemal Abawajy 2017-10-20 This book presents the outcomes of the 2017 International Conference on Applications and Techniques in Cyber Security and Intelligence, which focused on all aspects of techniques and applications in cyber and electronic security and intelligence research. The conference provides a forum for presenting and discussing innovative ideas, cutting-edge research findings, and novel techniques, methods and applications on all aspects of cyber and electronic security and intelligence.

BIOMAT 2015 Rubem P Mondaini 2016-04-28 This is a book of an international series on interdisciplinary topics of the Mathematical and Biological Sciences. The chapters are related to selected papers on the research themes presented at BIOMAT 2015 International Symposium on Mathematical and Computational Biology which was held in the Roorkee Institute of Technology, in Roorkee, Uttarakhand, India, on November 02–06, 2015. The treatment is both pedagogical and advanced in order to motivate research students to fulfill the requirements of professional practitioners. As in other volumes of this series, there are new important results on the interdisciplinary fields of mathematical and biological sciences and comprehensive reviews written by prominent scientific leaders of famous research groups. There are new results based on the state of art research in Population Dynamics, on Pattern Recognition of Biological Phenomena, the Mathematical Modelling of Infectious Diseases, Computational Biology, the Dynamic and Geometric Modelling of Biological Phenomena, the Modelling of Physiological Disorders, the Optimal Control Techniques in Mathematical Modelling of Biological Phenomena, the Hydrodynamics and Elasticity of Cell Tissues and Bacterial Growth and the Mathematical Morphology of Biological Structures. All these contributions are also strongly recommended to professionals from other scientific areas aiming to work on these interdisciplinary fields. Contents:Mathematical Modelling of Infectious Diseases:Network Structure and Enzymatic Evolution in Leishmania Metabolism: A Computational Study (A Subramanian & R R Sarkar)Long-Term Potential of Imperfect Seasonal Flu Vaccine in Presence of Natural Immunity (S Ghosh & J M Heffernan)Impact of Non-Markovian Recovery on Network Epidemics (G Röst, Z Vizi & I Z Kiss)A Modelling Framework for Serotype Replacement in Vaccine-Preventable Diseases (M Kang, A L Espindola, M Laskowski & S M Moghadas)Pattern Recognition of Biological Phenomena:An Integrative Approach for Model Driven Computation of Treatments in Reproductive Medicine (R Ehrig, T Dierkes, S Schäfer, S Röblitz, E Tronci, T Mancini, I Salvo, V Alimguzhin, F Mari, I Melatti, A Massini, B Leeners, T H C Krüger, M Egli, F Ille & B Leeners)The Network Route to Biological Complexity (S J Banerjee, R K Grewal, S Sinha & S Roy)A Systems Biology Approach to Bovine Fertility and Metabolism: Introduction of a Glucose Insulin Model (Julia Plöntzke, M Berg, C Stötzel & S Röblitz)Biographer: Visualization of Graph Theoretical Patterns, Measurements, and Analysis in Mathematical Biology (R Viswanathan, S Liang, Y Yang & J R Jungck)Hydrodynamics and Elasticity of Cell Tissues and Bacterial Growth:Modelling the Early Growth of Stem Cell Tissues (R A Barrio, S Orozco-Fuentes & R Romero-Arias)Non-local Hydrodynamics of Swimming Bacteria and Self-Activated Process (S Roy & R Llinás)Dynamic and Geometric Modelling of Biomolecular Structures:Geometric Analysis of the Conformational features of Protein Structures (M Datt)Computational Biology:Prediction of System States, Robustness and Stability of the Human Wnt Signal Transduction Pathway using Boolean Logic (L Nayak, R K De & A Datta)Entropy Measures and the Statistical Analysis of Protein Family Classification (R P Mondaini & S C de Albuquerque Neto)Clustering Neuraminidase Influenza Protein Sequences (X Li, H Jankowski, S Boonpatcharanon, V Tran, X Wang & J M Heffernan)Optimal Control Techniques in Mathematical Modelling of Biological Phenomena:Optimal Control for Therapeutic Drug Treatment on a Delayed Model Incorporating Immune Response (P Dubey, B Dubey & U S Dubey)Population Dynamics:Bifurcations and Oscilllatory Dynamics in a Tumor Immune Interaction Model (S Khajanchi)On a Nonlinear System Modelling Darwinian Dynamics and the Immune Response to Cancer Evolution (A Bellouquid, M Ch-Chaoui & E de Angelis)Sexual Selection is Not Required: A Mathematical Model of Species with Sexually Differentiated Death Rates (D Wallace, E Dauson, C Pinion & K Hayashi)Models for Two Strains of the Caprine Arthritis Encephalitis Virus Disease (S Collino, E Venturino, L Ferreri, L Bertolotti, S Rosati & M Giacobini)Conservation of Forestry Biomass Introducing Variable Taxation for Harvesting: A Mathematical Model (M Chaudhary, J Dhar & O P Misra)Stability Analysis of a Two Species Competition Model with Fuzzy Initial Conditions: Fuzzy Differential Equation Approach Environment (S Paul, P Bhattacharya & K S Chaudhuri)Modelling Physiological Disorders:Magnetic Resonance Guided High Intensity Focused Ultrasound — Mathematical Modeling of an Innovative, State of the Art Technology for Cancer Therapy (J Murley, J Thangaraj, J Drake, A Waspe & S Sivaloganathan)The Effects of Fibroblasts on Wave Dynamics in a Mathematical Model for Human Ventricular Tissue (A R Nayak & R Pandit)A Simple Logistic Sigmoidal Model Predicts Oxidative Stress Thresholds in Newly Diagnosed Diabetics on Glucose Control Therapy (R Kulkarni) Readership: Undergraduates, graduates, researchers and all practitioners in the interdisciplinary fields of Mathematical Biology, Biological Physics and Mathematical Modelling of Biosystems.

Oswaal One For All Olympiad Previous Years' Solved Papers, Class-4 Mathematics Book (For 2022-23 Exam) Oswaal Editorial Board 2022-06-14 As per the Latest Pattern issued by various Exam Conducting Bodies-*ISO, SZF, HO, UIMO, IOEL, ITHO, NSO, IEO, IRAO, NSTSE, SEAMO, IMO, IOS, IGKO, UIEO - Previous years' Solved Papers 2011 to 2020 Assessment through 3 Levels of Questions--Level 1, Level 2 & Achievers Answer Key with Explanations Amazing Facts, Fun Trivia & 'Did You Know?' Concept Review with Examples Latest Sample Papers with complete solutions

Rankings and the Reshaping of Higher Education Ellen Hazelkorn 2015-03-23 University rankings have gained popularity around the world and are now a significant factor shaping reputation. This second edition updates Ellen Hazelkorn's first comprehensive study of rankings from a global perspective, drawing in new original research and extensive analysis. It is essential reading for policymakers, managers and scholars.

Between Mission and Market Daniel Rosenberg 2017-04-26 This book confronts some of the main controversies in higher education, particularly those affecting first-year students: high-stakes testing in general (particularly the SAT), the intensification of student debt and the financial sentence imposed upon all who incur it, and the dramatic pressures placed upon freshmen as they transition to college.

Computer Vision -- ACCV 2014 Daniel Cremers 2015-04-15 The five-volume set LNCS 9003--9007 constitutes the thoroughly refereed post-conference proceedings of the 12th Asian Conference on Computer Vision, ACCV 2014,

held in Singapore, Singapore, in November 2014. The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions. The papers are organized in topical sections on recognition; 3D vision; low-level vision and features; segmentation; face and gesture, tracking; stereo, physics, video and events; and poster sessions 1-3.

Five Equations That Changed the World Dr. Michael Guillen 2012-06-05 A Publishers Weekly best book of 1995! Dr. Michael Guillen, known to millions as the science editor of ABC's Good Morning America, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime's most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr. Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein's famous energy equation, $E=mc2$ -- enabled the creation of the nuclear bomb. Also revealed are the mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical imagination," and named a Best Nonfiction Book of 1995, the stories behind The Five Equations That Changed the World, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

The Common Core in Action: Ready-to-Use Lesson Plans for K–6 Librarians Deborah J Jesseman 2015-06-19 This book addresses Common Core State Standard curriculum resources to assist the school librarian in collaborating with classroom teachers. • Offers you the opportunity to exercise leadership in your school, playing a key role in the implementation of the CCSS in all subject areas and collaborating with instructors to co-teach lessons correlated with the standards • Provides ready-to-implement lesson plans cross-referenced to the CCSS for all grade levels • Shares collection development planning guidelines relating to the CCSS • Includes resource suggestions and additional lesson plans in all content areas

The Annalist 1919

Electricity Distribution Panagiotis Karampelas 2016-03-01 This book introduces readers to novel, efficient and user-friendly software tools for power systems studies, to issues related to distributed and dispersed power generation, and to the correlation between renewable power generation and electricity demand. Discussing new methodologies for addressing grid stability and control problems, it also examines issues concerning the safety and protection of transmission and distribution networks, energy storage and power quality, and the application of embedded systems to these networks. Lastly, the book sheds light on the implications of these new methodologies and developments for the economics of the power industry. As such, it offers readers a comprehensive overview of state-of-the-art research on modern electricity transmission and distribution networks.

Emerging Security Algorithms and Techniques Khaleel Ahmad 2019-05-20 Cyber security is the protection of information systems, hardware, software, and information as well from theft, damages, interruption or misdirection to any of these resources. In other words, cyber security focuses on protecting computers, networks, programs and data (in use, in rest, in motion) from unauthorized or unintended access, change or destruction. Therefore, strengthening the security and resilience of cyberspace has become a vital homeland security mission. Cyber security attacks are growing exponentially. Security specialists must occupy in the lab, concocting new schemes to preserve the resources and to control any new attacks. Therefore, there are various emerging algorithms and techniques viz. DES, AES, IDEA, WAKE, CAST5, Serpent Algorithm, Chaos-Based Cryptography McEliece, Niederreiter, NTRU, Goldreich–Goldwasser–Halevi, Identity Based Encryption, and Attribute Based Encryption. There are numerous applications of security algorithms like cyber security, web security, e-commerce, database security, smart card technology, mobile security, cloud security, digital signature, etc. The book offers

comprehensive coverage of the most essential topics, including: Modular Arithmetic, Finite Fields Prime Number, DLP, Integer Factorization Problem Symmetric Cryptography Asymmetric Cryptography Post-Quantum Cryptography Identity Based Encryption Attribute Based Encryption Key Management Entity Authentication, Message Authentication Digital Signatures Hands-On "SageMath" This book serves as a textbook/reference book for UG, PG, PhD students, Teachers, Researchers and Engineers in the disciplines of Information Technology, Computer Science and Engineering, and Electronics and Communication Engineering.

Regulating Blockchain Philipp Hacker 2019-08-01 Less than a decade after the Financial Crisis, we are witnessing the fast emergence of a new financial order driven by three different, yet interconnected, dynamics: first, the rapid application of technology - such as big data, machine learning, and distributed computing - to banking, lending, and investing, in particular with the emergence of virtual currencies and digital finance; second, a disintermediation fuelled by the rise of peer-to-peer lending platforms and crowd investment which challenge the traditional banking model and may, over time, lead to a transformation of the way both retail and corporate customers bank; and, third, a tendency of de-bureaucratisation under which new platforms and technologies challenge established organisational patterns that regulate finance and manage the money supply. These changes are to a significant degree driven by the development of blockchain technology. The aim of this book is to understand the technological and business potential of the blockchain technology and to reflect on its legal challenges. The book mainly focuses on the challenges blockchain technology has so far faced in its first application in the areas of virtual money and finance, as well as those that it will inevitably face (and is partially already facing, as the SEC Investigative Report of June 2017 and an ongoing SEC securities fraud investigation show) as its domain of application expands in other fields of economic activity such as smart contracts and initial coin offerings. The book provides an unparalleled critical analysis of the disruptive potential of this technology for the economy and the legal system and contributes to current thinking on the role of law in harvesting and shaping innovation.

Beyond McDonaldization Dennis Hayes 2017-04-19 Beyond McDonaldization provides new concepts of higher education for the twenty-first century in a unique manner, challenging much that is written in mainstream texts. This book undertakes a reassessment of the growth of McDonaldization in higher education by exploring how the application of Ritzer's four features efficiency, predictability, calculability and control has become commonplace. This wide-ranging text discusses arguments surrounding the industrialisation of higher education, with case studies and contributions from a wide range of international authors. Written in an accessible style, Beyond McDonaldization examines questions such as: Can we regain academic freedom whilst challenging the McDonaldization of thought and ideas? Is a McDonaldization of every aspect of academic life inevitable? Will the new focus on student experience damage young people? Why is a McDonaldized education living on borrowed time? Is it possible to recreate the university of the past or must we start anew? Does this industrialisation meet the educational needs of developing economies? This book brings international discussions on the changing world of higher education and the theory of McDonaldization together, seeking to provide a positive future vision of higher education. Analysing and situating the discussion of higher education within a wider social, political and cultural context, this ground-breaking text will have a popular appeal with students, academics and educationalists.

Arguing with Numbers James Wynn 2021-05-14 As discrete fields of inquiry, rhetoric and mathematics have long been considered antithetical to each other. That is, if mathematics explains or describes the phenomena it studies with certainty, persuasion is not needed. This volume calls into question the view that mathematics is free of rhetoric. Through nine studies of the intersections between these two disciplines, Arguing with Numbers shows that mathematics is in fact deeply rhetorical. Using rhetoric as a lens to analyze mathematically based arguments in public policy, political and economic theory, and even literature, the essays in this volume reveal how mathematics influences the values and beliefs with which we assess the world and make decisions and how our

worldviews influence the kinds of mathematical instruments we construct and accept. In addition, contributors examine how concepts of rhetoric—such as analogy and visuality—have been employed in mathematical and scientific reasoning, including in the theorems of mathematical physicists and the geometrical diagramming of natural scientists. Challenging academic orthodoxy, these scholars reject a math-equals-truth reduction in favor of a more constructivist theory of mathematics as dynamic, evolving, and powerfully persuasive. By bringing these disparate lines of inquiry into conversation with one another, Arguing with Numbers provides inspiration to students, established scholars, and anyone inside or outside rhetorical studies who might be interested in exploring the intersections between the two disciplines. In addition to the editors, the contributors to this volume are Catherine Chaput, Crystal Broch Colombini, Nathan Crick, Michael Dreher, Jeanne Fahnestock, Andrew C. Jones, Joseph Little, and Edward Schiappa.

Introduction to Teaching Gene E. Hall 2018-11-29 An ideal introductory text for aspiring teachers, Introduction to Teaching: Making a Difference in Student Learning is grounded in the realities and complexities found in today's schools. Acclaimed authors Gene E. Hall, Linda F. Quinn, and Donna M. Gollnick thoroughly prepare readers to make a difference as teachers, presenting firsthand stories and evidence-based practices while offering a student-centered approach to learning. The authors focus on how to address one of the biggest challenges facing many of today's schools—ensuring that all students are learning—and help teachers prioritize student learning as their primary focus. From true-to-life challenges that future teachers will face, such as high-stakes testing, reduced funding, low retention, and Common Core State Standards, to the inspiration and joy they will experience throughout their teaching careers, the Third Edition paints an importantly authentic picture of the real life of a teacher.

Oswaal CBSE 6 Years' Solved Papers, Class 12, Commerce (English Core, Mathematics, Accountancy, Economics, Business Studies) Book (For 2022-23 Exam) Oswaal Editorial Board 2022-07-12 • CBSE Syllabus : With latest CBSE Syllabus dated: April 21, 2022 Cir. No. Acad-48/2022 • Latest Updations: 1. Term I &Term II Solved Papers 2022-23 (all sets of Delhi & Outside Delhi) 2. Toppers Answers -2021 • Exam Questions: Includes Previous 6 Years' Board Solved Papers (2016-2022) • CBSE Marking Scheme Answers: Previous Years' Board Marking scheme answers (2016-2022) with detailed explanation to facilitate exam-oriented preparation. • Toppers Answers: Latest Toppers' handwritten answers sheets • Mind Maps for concepts recall

Alleviating Global Poverty Lewis D. Solomon 2014-12-05 In the book, Lewis D. Solomon develops the theme that the profit motive can serve as a powerful force for social good in developing nations, making a difference in the lives of those trapped in misery and helping millions out of poverty. After focusing on three US-based venture capital-like firms, the book presents evidence that for-profit corporations, many indigenous, funded in part by these capital providers have alleviated global poverty. These investee firms, which seek both financial and social returns, serve the impoverished by delivering critically needed but affordable goods and services, including quality education, preventive healthcare, light and power, and enhanced agricultural productivity.

Mathematics for Social Justice Gizem Karaali 2021-11-15 Mathematics for Social Justice: Focusing on Quantitative Reasoning and Statistics offers a collection of resources for mathematics faculty interested in incorporating questions of social justice into their classrooms. The book comprises seventeen classroom-tested modules featuring ready-to-use activities and investigations for college mathematics and statistics courses. The modules empower students to study issues of social justice and to see the power and limitations of mathematics in real-world contexts of deep concern. The primary focus is on classroom activities where students can ask their own questions, find and analyze real data, apply mathematical ideas themselves, and draw their own conclusions. Module topics in the book focus on technical content that could support courses in quantitative reasoning or introductory statistics. Social themes include electoral issues, environmental justice, equity/inequity, human rights, and racial justice, including topics

such as gentrification, partisan gerrymandering, policing, and more. The volume editors are leaders of the national movement to include social justice material in mathematics teaching and jointly edited the earlier AMS-MAA volume, Mathematics for Social Justice: Resources for the College Classroom. Gizem Karaali is Professor of Mathematics at Pomona College. She is a past chair of the Special Interest Group of the MAA on Quantitative Literacy (SIGMAA-QL). She is one of the founding editors of The Journal of Humanistic Mathematics, senior editor of Numeracy, and an associate editor for The Mathematical Intelligencer; she also serves on the editorial board of the MAA's Classroom Resource Materials series. Lily Khadjavi is Professor and Chair of Mathematics at Loyola Marymount University and is a past co-chair of the Infinite Possibilities Conference. In 2020 she was appointed by the California State Attorney General to the Racial and Identity Profiling Act Board, which works with the California Department of Justice. She currently serves on the editorial board of the MAA's Spectrum series and the Human Resources Advisory Committee for the Mathematical Sciences Research Institute in Berkeley.

Oswaal CBSE Accountancy, English Core, Business Studies & Mathematics Class 12 Sample Question Papers (Set of 4 Books) (For 2023 Board Exam) Oswaal Editorial Board 2022-10-19 This product covers the following: • 10 Sample Papers-5 Solved & 5 Self-Assessment Papers strictly designed as per the latest CBSE Sample Paper released on 16th September'2022 • 2023 Board Sample Paper analysis • On-Tips Notes & Revision Notes for Quick Revision • Mind Maps & Mnemonics with 1000+concepts for better learning • 200+MCQs & Objective Type Questions for practice

Effective Grading Practices for Secondary Teachers Dave Nagel 2015-03-04 Enacting an effective grading system that emphasizes the secondary student's learning process! The book is written in an articulate and direct format that highlights successful practices, programs and activities that support effective implementation of changing grading systems. Providing research of grading reforms that were enacted by an active teacher dialogue with the student's perspective taken into consideration Addressing the shortcomings of no failure policies in the overall learning process Researching perception of effort limitations and the impact of grades given to the student by an instructor Considering restraints of grading policies due to vagueness and constrictive focus

Sick Schools David V. Anderson 2020-01-10 Who's afraid of for-profit education? Those who work in non-profit or government owned and operated schools. Many parents and other stakeholders have been made fearful by this education establishment. What's more important to humans: nutrition or education? Nutrition is more important because it is the prerequisite for other human activities, including education. What organizations provide food and who pays for the food? Food is provided by for-profit farmers, for-profit processors, for-profit wholesalers, and for-profit retailers. Most food is purchased with the consumers' own money, but a significant amount is purchased by low-income individuals using food stamps. Why can't education be provided similarly using education stamps? We trust for-profit enterprises to provide our food. Why can't we trust for-profit enterprises to provide K-12 education? Fearmongers have frightened us and made us into gullible compliant socialists who despise commercial activities in education. Go to the supermarket and ponder its marvelous array of foods and then contemplate how a for-profit K-12 education sector would please and amaze its customers.

Elliptic–Hyperbolic Partial Differential Equations Thomas H. Otway 2015-07-08 This text is a concise introduction to the partial differential equations which change from elliptic to hyperbolic type across a smooth hypersurface of their domain. These are becoming increasingly important in diverse sub-fields of both applied mathematics and engineering, for example: • The heating of fusion plasmas by electromagnetic waves • The behaviour of light near a caustic • Extremal surfaces in the space of special relativity • The formation of rapids; transonic and multiphase fluid flow • The dynamics of certain models for elastic structures • The shape of industrial surfaces such as windshields and airfoils • Pathologies of traffic flow • Harmonic fields in extended projective space They also arise in models for the early universe, for cosmic acceleration, and for possible violation of causality in the interiors of certain compact stars. Within the past 25 years, they have become central to the isometric embedding of

Riemannian manifolds and the prescription of Gauss curvature for surfaces: topics in pure mathematics which themselves have important applications. Elliptic–Hyperbolic Partial Differential Equations is derived from a mini-course given at the ICMS Workshop on Differential Geometry and Continuum Mechanics held in Edinburgh, Scotland in June 2013. The focus on geometry in that meeting is reflected in these notes, along with the focus on quasilinear equations. In the spirit of the ICMS workshop, this course is addressed both to applied mathematicians and to mathematically-oriented engineers. The emphasis is on very recent applications and methods, the majority of which have not previously appeared in book form.

One Step Ahead David Sally 2020-08-06 The world's best negotiators have moved beyond the conventional wisdom by utilising cutting-edge studies and real-world results. It's time you did too. For over twenty years, David Sally has been teaching the art of negotiation at leading business schools and to executives at top companies. Now, using insights from social psychology and game theory, he delivers the proven, clear, actionable advice you need to stay one step ahead. By studying great examples, from Machiavelli to Wall Street, Xi Jinping and Barack Obama, he explores how the game's masters navigate the field strategically, craftily, even emotionally. The best know every negotiation is different and that your tactics are, in part, determined by your opponent. One Step Ahead will make sure that you have what it takes to come out on top, no matter who you are facing across the table.

Research Directions in Number Theory Jennifer S. Balakrishnan 2019-08-01 These proceedings collect several number theory articles, most of which were written in connection to the workshop WIN4: Women in Numbers, held in August 2017, at the Banff International Research Station (BIRS) in Banff, Alberta, Canada. It collects papers disseminating research outcomes from collaborations initiated during the workshop as well as other original research contributions involving participants of the WIN workshops. The workshop and this volume are part of the WIN network, aimed at highlighting the research of women and gender minorities in number theory as well as increasing their participation and boosting their potential collaborations in number theory and related fields.