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Analysis of Infectious Disease Problems (Covid-19) and Their Global Impact - Praveen Agarwal 2021

This edited volume is a collection of selected research articles discussing the analysis of infectious diseases by using mathematical modelling in recent times. Divided into two parts, the book gives a general and country-wise analysis of Covid-19. Analytical and numerical techniques for virus models are presented along with the application of mathematical modelling in the analysis of their spreading rates and treatments. The book also includes applications of fractional differential equations as well as ordinary, partial and integrodifferential equations with optimization methods. Probability distribution and their bio-mathematical applications have also been studied. This book is a valuable resource for researchers, scholars, biomathematicians and medical experts.

Observing the Observer - Zahid Bukhari 2012

THE collection of papers in this volume documents the study of Islam in American Universities. Over the last few decades the United States has seen significant growth in the study of Islam and Islamic societies in institutions of higher learning fueled primarily by events including economic relations of the U.S. with Muslim countries, migration of Muslims into the country, conversion of Americans to Islam, U.S. interests in Arab oil resources, involvement of Muslims in the American public square, and the tragic events of 9/11. Although there is increasing

recognition that the study of Islam and the role of Muslims is strategically essential in a climate of global integration, multiculturalism, and political turmoil, nevertheless, the state of Islamic Studies in America is far from satisfactory. The issue needs to be addressed, particularly as the need for intelligent debate and understanding is continuously stifled by what some have termed an "Islam industry" run primarily by fly-by journalists, think tank pundits, and cut-and-paste "experts."

Concepts in Abstract Algebra - Charles Lanski

The style and structure of CONCEPTS IN ABSTRACT ALGEBRA is designed to help students learn the core concepts and associated techniques in algebra deeply and well. Providing a fuller and richer account of material than time allows in a lecture, this text presents interesting examples of sufficient complexity so that students can see the concepts and results used in a nontrivial setting. Author Charles Lanski gives students the opportunity to practice by offering many exercises that require the use and synthesis of the techniques and results. Both readable and mathematically interesting, the text also helps students learn the art of constructing mathematical arguments. Overall, students discover how mathematics proceeds and how to use techniques that mathematicians actually employ. This book is included in the Brooks/Cole Series in Advanced Mathematics (Series Editor: Paul Sally, Jr.).

Destructive Creation - Mark R. Wilson 2016-08-03

During World War II, the United States helped vanquish the Axis powers by converting its enormous economic capacities into military might. Producing nearly two-thirds of all the munitions used by Allied forces, American industry became what President Franklin D. Roosevelt called "the arsenal of democracy." Crucial in this effort were business leaders. Some of these captains of industry went to Washington to coordinate the mobilization, while others led their companies to churn out weapons. In this way, the private sector won the war—or so the story goes. Based on new research in business and military archives, *Destructive Creation* shows that the enormous mobilization effort relied not only on the capacities of private companies but also on massive public investment and robust government regulation. This public-private partnership involved plenty of government-business cooperation, but it also generated antagonism in the American business community that had lasting repercussions for American politics. Many business leaders, still engaged in political battles against the New Deal, regarded the wartime government as an overreaching regulator and a threatening rival. In response, they mounted an aggressive campaign that touted the achievements of for-profit firms while dismissing the value of public-sector contributions. This probusiness story about mobilization was a political success, not just during the war, but afterward, as it shaped reconversion policy and the transformation of the American military-industrial complex. Offering a groundbreaking account of the inner workings of the "arsenal of democracy," *Destructive Creation* also suggests how the struggle to define its heroes and villains has continued to shape economic and political development to the present day.

Beyond Timbuktu - Ousmane Oumar Kane 2016-06-07

Timbuktu is famous as a center of learning from Islam's Golden Age. Yet it was one among many scholarly centers to exist in precolonial West Africa. Ousmane Kane charts the rise of Muslim learning in West Africa from the beginning of Islam to the present day and corrects lingering misconceptions about Africa's Muslim heritage and its influence.

Sociology of Law - Mathieu Deflem 2008-02-28

Since the classic contributions of Weber and Durkheim, the sociology of

law has raised key questions on the place of law in society. Drawing together both theoretical and empirical themes, in this 2008 book Mathieu Deflem reviews the field's major accomplishments and reveals the value of the multiple ways in which sociologists study the social structures and processes of law. He discusses both historical and contemporary issues, from early theoretical foundations and the work of Weber and Durkheim, through the contribution of sociological jurisprudence, to the development of modern perspectives to clarify how sociologists study law. Chapters also look at the role of law in relation to the economy, politics, culture, and the legal profession; and aspects of law enforcement and the globalization of law. This book will appeal to scholars and students of the sociology of law, jurisprudence, social and political theory, and social and political philosophy.

Will to Fight - Ben Connable 2018-12-04

This report defines and describes will to fight and provides a model of unit will to fight that can be applied to ground combat units of any scale. It also provides a theoretical basis for adding will to fight to military war gaming.

Handbook on Measurement, Assessment, and Evaluation in Higher Education - Charles Secolsky 2017-07-31

In this valuable resource, well-known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement, assessment, and evaluation, with guidance on how to apply these ideas for the benefit of students and institutions. Bringing together terminology, analytical perspectives, and methodological advances, this second edition facilitates informed decision-making while connecting the latest thinking in these methodological areas with actual practice in higher education. This research handbook provides higher education administrators, student affairs personnel, institutional researchers, and faculty with an integrated volume of theory, method, and application.

NCHRP Report 659 - 2010

Blown to Bits - Harold Abelson 2008

'Blown to Bits' is about how the digital explosion is changing everything. The text explains the technology, why it creates so many surprises and why things often don't work the way we expect them to. It is also about things the information explosion is destroying: old assumptions about who is really in control of our lives.

The Elements of Coordinate Geometry - Sidney Luxton Loney 1896

A First Course in Abstract Algebra - John B. Fraleigh 1989

Considered a classic by many, A First Course in Abstract Algebra is an in-depth, introductory text which gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures. The Sixth Edition continues its tradition of teaching in a classical manner, while integrating field theory and new exercises.

Identifying Critical Content - Deana Senn 2014-06-15

Do your students know which content is most important to learn?

Academic standards call for increased rigor, but simply raising complexity is not enough. Students must also take responsibility for their own learning. They need to be able to determine which content is critical, why it is important, how it connects to their existing knowledge, and when it will inform their future learning. Based on the earlier work of Dr. Robert J. Marzano, *Identifying Critical Content: Classroom Strategies to Help Students Know What is Important* explores explicit techniques for mastering a crucial strategy of instructional practice: teaching students the skill of identifying critical content. It includes:

- Explicit steps for implementation
- Recommendations for monitoring if students are able to identify critical content
- Adaptations for students who struggle, have special needs, or excel in learning
- Examples and non-examples from classroom practice
- Common mistakes and ways to avoid them

The Essentials for Achieving Rigor series of instructional guides helps educators become highly skilled at implementing, monitoring, and adapting instruction. Put it to practical use immediately, adopting day-to-day examples as models for application in your own classroom.

Scientific and Technical Books in Print - 1972

Textbook of Pain - Patrick D. Wall 1989-01-01

The New Edition of the most comprehensive and scholarly reference book on pain research and management has been completely revised and updated. Covers all aspects of the understanding and management of pain.

Learning and Practicing Econometrics - William E. Griffiths 1993-03-02

Designed to promote students' understanding of econometrics and to build a more operational knowledge of economics through a meaningful combination of words, symbols and ideas. Each chapter commences in the way economists begin new empirical projects--with a question and an economic model--then proceeds to develop a statistical model, select an estimator and outline inference procedures. Contains a copious amount of problems, experimental exercises and case studies.

Thinking about Deterrence - Air Univeristy Press 2014-09-01

With many scholars and analysts questioning the relevance of deterrence as a valid strategic concept, this volume moves beyond Cold War nuclear deterrence to show the many ways in which deterrence is applicable to contemporary security. It examines the possibility of applying deterrence theory and practice to space, to cyberspace, and against non-state actors. It also examines the role of nuclear deterrence in the twenty-first century and reaches surprising conclusions.

The Competitive Advantage Special Operations Forces in Large-Scale Combat Operations - Robert Toguchi 2019-05-11

Since the Soviet Union's fall in 1989, the specter of large-scale ground combat against a peer adversary was remote. During the years following, the US Army found itself increasingly called upon to lead multinational operations in the lower to middle tiers of the range of military operations and conflict continuum. The events of 11 September 2001 led to more than 15 years of intense focus on counterterrorism, counterinsurgency, and stability operations in Iraq and Afghanistan. An entire generation of Army leaders and Soldiers were culturally imprinted by this experience. We emerged as an Army more capable in limited contingency operations than at any time in our nation's history, but the geopolitical landscape continues to shift and the risk of great power conflict is no longer a

remote possibility. While our Army focused on limited contingency operations in the Middle East and Southwest Asia, other regional and peer adversaries scrutinized US military processes and methods and adapted their own accordingly. As technology has proliferated and become accessible in even the most remote corners of the world, the US military's competitive advantage is being challenged across all of the warfighting domains. In the last decade, we have witnessed an emergent China, a revanchist and aggressive Russia, a menacing North Korea, and a cavalier Iranian regime. Each of these adversaries seeks to change the world order in their favor and contest US strategic interests abroad. The chance for war against a peer or regional near-peer adversary has increased exponentially, and we must rapidly shift our focus to successfully compete in all domains and across the full range of military operations. Over the last two years, the US Army has rapidly shifted the focus of its doctrine, training, education, and leader development to increase readiness and capabilities to prevail in large-scale ground combat operations against peer and near-peer threats. Our new doctrine, Field Manual (FM) 3-0, Operations, dictates that the Army provide the joint force four unique strategic roles: shaping the security environment, preventing conflict, prevailing in large-scale combat operations, and consolidating gains to make temporary success permanent. To enable this shift of focus, the Army is now attempting to change its culture shaped by over 15 years of persistent limited-contingency operations. Leaders must recognize that the hard-won wisdom of the Iraq and Afghanistan wars is important to retain but does not fully square with the exponential lethality, hyperactive chaos, and accelerated tempo of the multi-domain battlefield when facing a peer or near-peer adversary. To emphasize the importance of the Army's continued preparation for large-scale combat operations, the US Army Combined Arms Center has published these volumes of The US Army Large-Scale Combat Operations Series book set. The intent is to expand the knowledge and understanding of the contemporary issues the US Army faces by tapping our organizational memory to illuminate the future. The reader should reflect on these case studies to analyze each situation, identify the

doctrines at play, evaluate leaders' actions, and determine what differentiated success from failure. Use them as a mechanism for discussion, debate, and intellectual examination of lessons of the past and their application to today's doctrine, organization, and training to best prepare the Army for large-scale combat. Relevant answers and tangible reminders of what makes us the world's greatest land power await in the stories of these volumes.

Partial Differential Equations - Lawrence C. Evans 2010

This is the second edition of the now definitive text on partial differential equations (PDE). It offers a comprehensive survey of modern techniques in the theoretical study of PDE with particular emphasis on nonlinear equations. Its wide scope and clear exposition make it a great text for a graduate course in PDE. For this edition, the author has made numerous changes, including a new chapter on nonlinear wave equations, more than 80 new exercises, several new sections, a significantly expanded bibliography. About the First Edition: I have used this book for both regular PDE and topics courses. It has a wonderful combination of insight and technical detail. ... Evans' book is evidence of his mastering of the field and the clarity of presentation. --Luis Caffarelli, University of Texas It is fun to teach from Evans' book. It explains many of the essential ideas and techniques of partial differential equations ... Every graduate student in analysis should read it. --David Jerison, MIT I use Partial Differential Equations to prepare my students for their Topic exam, which is a requirement before starting working on their dissertation. The book provides an excellent account of PDE's ... I am very happy with the preparation it provides my students. --Carlos Kenig, University of Chicago Evans' book has already attained the status of a classic. It is a clear choice for students just learning the subject, as well as for experts who wish to broaden their knowledge ... An outstanding reference for many aspects of the field. --Rafe Mazzeo, Stanford University

Civil Engineering Materials - Nagaratnam Sivakugan 2016-12-05

Readers can now prepare for civil engineering challenges while gaining a broad overview of the materials they will use in their studies and careers

with the unique content found in CIVIL ENGINEERING MATERIALS. This invaluable book covers traditional materials, such as concrete, steel, timber, and soils, and also explores non-traditional materials, such as synthetics and industrial-by products. Using numerous practical examples and straight-forward explanations, readers can gain a full understanding of the characteristics and behavior of various materials, how they interact, and how to best utilize and combine traditional and non-traditional materials. In addition to detailing the effective use of civil engineering materials, the book highlights issues related to sustainability to give readers a broader context of how materials are used in contemporary applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Nonlinear Wave Equations - Walter A. Strauss 1990-01-12

The theory of nonlinear wave equations in the absence of shocks began in the 1960s. Despite a great deal of recent activity in this area, some major issues remain unsolved, such as sharp conditions for the global existence of solutions with arbitrary initial data, and the global phase portrait in the presence of periodic solutions and traveling waves. This book, based on lectures presented by the author at George Mason University in January 1989, seeks to present the sharpest results to date in this area. The author surveys the fundamental qualitative properties of the solutions of nonlinear wave equations in the absence of boundaries and shocks. These properties include the existence and regularity of global solutions, strong and weak singularities, asymptotic properties, scattering theory and stability of solitary waves. Wave equations of hyperbolic, Schrodinger, and KdV type are discussed, as well as the Yang-Mills and the Vlasov-Maxwell equations. The book offers readers a broad overview of the field and an understanding of the most recent developments, as well as the status of some important unsolved problems. Intended for mathematicians and physicists interested in nonlinear waves, this book would be suitable as the basis for an advanced graduate-level course.

Schaum's Quick Guide to Writing Great Research Papers - Laurie

Rozakis 2007-06-15

Schaum's is here--to help you write great research papers The experts at Schaum's are at your service-ready to help you with concise, complete, step-by-step instructions that will make writing research papers a breeze, not a burden. The clear, concise guidelines and in-depth instruction in this book will show you how to write high-quality research papers that will help you succeed academically and in the professional world. You'll quickly learn how to: Select and narrow your topic Evaluate and present evidence persuasively Avoid plagiarism and other novice mistakes Learn from examples, sample papers, and model documentation Handbook of Test Development - Suzanne Lane 2015-10-08

The second edition of the Handbook of Test Development provides graduate students and professionals with an up-to-date, research-oriented guide to the latest developments in the field. Including thirty-two chapters by well-known scholars and practitioners, it is divided into five sections, covering the foundations of test development, content definition, item development, test design and form assembly, and the processes of test administration, documentation, and evaluation. Keenly aware of developments in the field since the publication of the first edition, including changes in technology, the evolution of psychometric theory, and the increased demands for effective tests via educational policy, the editors of this edition include new chapters on assessing noncognitive skills, measuring growth and learning progressions, automated item generation and test assembly, and computerized scoring of constructed responses. The volume also includes expanded coverage of performance testing, validity, fairness, and numerous other topics. Edited by Suzanne Lane, Mark R. Raymond, and Thomas M. Haladyna, The Handbook of Test Development, 2nd edition, is based on the revised Standards for Educational and Psychological Testing, and is appropriate for graduate courses and seminars that deal with test development and usage, professional testing services and credentialing agencies, state and local boards of education, and academic libraries serving these groups.

Differential Equations - Paul Blanchard 2012-07-25

Incorporating an innovative modeling approach, this book for a one-

semester differential equations course emphasizes conceptual understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Global Business Regulation - John Braithwaite 2000-02-13

Across an amazing sweep of the critical areas of business regulation - from contract, intellectual property and corporations law, to trade, telecommunications, labour standards, drugs, food, transport and environment - this book confronts the question of how the regulation of business has shifted from national to global institutions. Based on interviews with 500 international leaders in business and government, this book examines the role played by global institutions such as the WTO, the OECD, IMF, Moody's and the World Bank, as well as various NGOs and significant individuals. The authors argue that effective and decent global regulation depends on the determination of individuals to engage with powerful agendas and decision-making bodies that would otherwise be dominated by concentrated economic interests. This book will become a standard reference for readers in business, law, politics and international relations.

Extending Russia - James Dobbins 2019-04-11

As the U.S. National Defense Strategy recognizes, the United States is currently locked in a great-power competition with Russia. This report seeks to define areas where the United States can compete to its own advantage. It examines Russian vulnerabilities and anxieties; analyzes potential policy options to exploit them; and assesses the associated benefits, costs, and risks, as well as the likelihood of successful implementation.

The Biological Mind - Alan Jasanoff 2018-03-13

A pioneering neuroscientist argues that we are more than our brains. To many, the brain is the seat of personal identity and autonomy. But the way we talk about the brain is often rooted more in mystical conceptions of the soul than in scientific fact. This blinds us to the physical realities of mental function. We ignore bodily influences on our psychology, from chemicals in the blood to bacteria in the gut, and overlook the ways that the environment affects our behavior, via factors varying from subconscious sights and sounds to the weather. As a result, we alternately overestimate our capacity for free will or equate brains to inorganic machines like computers. But a brain is neither a soul nor an electrical network: it is a bodily organ, and it cannot be separated from its surroundings. Our selves aren't just inside our heads--they're spread throughout our bodies and beyond. Only once we come to terms with this can we grasp the true nature of our humanity.

Elementary Linear Algebra - Ron Larson 2018

Paperbound Books in Print Fall 1995 - Reed Reference Publishing 1995-10

Student Solutions Manual, Vol. 1 for Swokowski's Calculus - Earl W Swokowski 2000-06-30

Prepare for exams and succeed in your mathematics course with this comprehensive solutions manual! Featuring worked out-solutions to the problems in CALCULUS: THE CLASSIC EDITION, 5th Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples.

Advanced Calculus - David V. Widder 2012-08

Precise approach with definitions, theorems, proofs, examples and exercises. Topics include partial differentiation, vectors, differential geometry, Stieltjes integral, infinite series, gamma function, Fourier series, Laplace transform, much more. Numerous graded exercises with selected answers.

Human Communication - Sherwyn P. Morreale 2001

This book offers a unique and unified approach to competence and the

basic processes of human communication backed by skill assessment. Beginning with the premise that all forms of communication have the potential to be viewed as competent depending on the context or situation, the text helps readers develop a framework for choosing among communication messages that will allow them to act competently. The theoretically-based and skills-oriented framework emphasizes the basic themes of motivation, knowledge and skills across interpersonal communication, electronically mediated communication, small group communication, and public speaking.

The Publishers' Trade List Annual - 1969

Advanced Calculus - Wilfred Kaplan 1952

Smith's General Urology - Donald Ridgeway Smith 2004

This indispensable and concise guide covers both the basic science and clinical knowledge needed to diagnose and treat urologic diseases. Thoroughly revised and updated, the text focuses on the anatomy and embryology of the genitourinary system, physical and diagnostic examination, and specific disorders of the genitourinary system, including bacterial infections, STDs, neoplasms of the prostate gland, kidney disease, and renal failure. Features over 400 illustrations including CT scans, radionuclide imaging scans, and x-rays, and more.

Ramsey Theory on the Integers - Bruce M. Landman 2014-11-10

Ramsey theory is the study of the structure of mathematical objects that is preserved under partitions. In its full generality, Ramsey theory is quite powerful, but can quickly become complicated. By limiting the focus of this book to Ramsey theory applied to the set of integers, the authors have produced a gentle, but meaningful, introduction to an important and enticing branch of modern mathematics. Ramsey Theory on the Integers offers students a glimpse into the world of mathematical research and the opportunity for them to begin pondering unsolved problems. For this new edition, several sections have been added and others have been significantly updated. Among the newly introduced topics are: rainbow Ramsey theory, an "inequality" version of Schur's

theorem, monochromatic solutions of recurrence relations, Ramsey results involving both sums and products, monochromatic sets avoiding certain differences, Ramsey properties for polynomial progressions, generalizations of the Erdős-Ginzberg-Ziv theorem, and the number of arithmetic progressions under arbitrary colorings. Many new results and proofs have been added, most of which were not known when the first edition was published. Furthermore, the book's tables, exercises, lists of open research problems, and bibliography have all been significantly updated. This innovative book also provides the first cohesive study of Ramsey theory on the integers. It contains perhaps the most substantial account of solved and unsolved problems in this blossoming subject. This breakthrough book will engage students, teachers, and researchers alike.

Goal Programming: Methodology and Applications - Marc

Schniederjans 2012-12-06

Goal Programming Applications in Accounting 74 Goal Programming Applications in Agriculture 76 Goal Programming Applications in Economics 78 Goal Programming Applications in Engineering 79 Goal Programming Applications in Finance 80 Goal Programming Applications in Government 83 Goal Programming Applications in an International Context 88 Goal Programming Applications in Management 90 Goal Programming Applications in Marketing 97 Summary 98 CHAPTER 5. FUTURE TRENDS IN GOAL PROORAMMING 101 GP is Positioned for Growth 101 Shifting the Life Cycle of GP Research to Growth 103 Summary 107 Reference 108 APPENDIX A TEXTBOOKS, READINGS BOOKS AND MONOORAPHS ON GOAL PROORAMMING 109 APPENDIX B. JOURNAL RESEARCH PUBLICATIONS ON GOAL PROORAMMING 113 INDEX 213 viii LIST OF FIGURES Figure 1-1. Summary Relationship of GP with MS/OR and MCDM Figure 1-2. Frequency Distribution for GP Journal Publications Figure 1-3. Life Cycle of GP Research Figure 2-1. Set of GP Efficient Solutions Figure 5-1. Life Cycle of GP Research ix LIST OF TABLES Table 1-1. MS/OR Topics and Their Related GP Topics Table 1-2. MCDM Subareas and Their Related GP Topics Table 1-3. Frequency Listing of GP Journal Publications and Book Titles Table 2-1. Solutions for a Dominated GP Problem Table 2-2. Conversion of LP Constraints to Goal

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This treatment examines the general theory of the integral, Lebesgue integral in n-space, the Riemann-Stieltjes integral, and more. "The exposition is fresh and sophisticated, and will engage the interest of accomplished mathematicians." — Sci-Tech Book News. 1966 edition. *Advanced Calculus* - G. B. Folland 2002

This book presents a unified view of calculus in which theory and practice reinforces each other. It is about the theory and applications of derivatives (mostly partial), integrals, (mostly multiple or improper), and infinite series (mostly of functions rather than of numbers), at a deeper level than is found in the standard calculus books. Chapter topics cover: Setting the Stage, Differential Calculus, The Implicit Function Theorem and Its Applications, Integral Calculus, Line and Surface Integrals—Vector Analysis, Infinite Series, Functions Defined by Series and Integrals, and Fourier Series. For individuals with a sound

knowledge of the mechanics of one-variable calculus and an acquaintance with linear algebra.

Dynamic Modeling and Control of Engineering Systems - Bohdan T. Kulakowski 2007-07-02

This textbook is ideal for a course in engineering systems dynamics and controls. The work is a comprehensive treatment of the analysis of lumped parameter physical systems. Starting with a discussion of mathematical models in general, and ordinary differential equations, the book covers input/output and state space models, computer simulation and modeling methods and techniques in mechanical, electrical, thermal and fluid domains. Frequency domain methods, transfer functions and frequency response are covered in detail. The book concludes with a treatment of stability, feedback control (PID, lead-lag, root locus) and an introduction to discrete time systems. This new edition features many new and expanded sections on such topics as: solving stiff systems, operational amplifiers, electrohydraulic servovalves, using Matlab with transfer functions, using Matlab with frequency response, Matlab tutorial and an expanded Simulink tutorial. The work has 40% more end-of-chapter exercises and 30% more examples.