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ANGIE ESTRADA

Nuclear Science Abstracts Springer Science & Business Media
Developed from a first-year graduate course in algebraic topology, this text is an informal introduction to some of the main ideas of contemporary homotopy and cohomology theory. The materials are structured around four core areas: de Rham theory, the Cech-de Rham complex, spectral sequences, and characteristic classes. By using the de Rham theory of differential forms as a prototype of cohomology, the machineries of algebraic topology are made easier to assimilate. With its stress on concreteness, motivation, and readability, this book is equally suitable for self-study and as a one-semester course in topology.
Handbook of Research on Nurturing Industrial Economy for Africa's Development Springer Science & Business Media
Mathematical demography is the centerpiece of quantitative social science. The founding works of this field from Roman times to the late Twentieth Century are collected here, in a new edition of a classic work by David R. Smith and Nathan Keyfitz. Commentaries by Smith and Keyfitz have been brought up to date and extended by Kenneth Wachter and Hervé Le Bras, giving a synoptic picture of the leading achievements in formal population studies. Like the original collection, this new edition constitutes an indispensable source for students and scientists alike, and illustrates the deep roots and continuing vitality of mathematical demography.
Numerical Solution of Ordinary Differential Equations Guilford Press
• advanced trade book • complete coverage of all question-types since 1996 • comprehensive "trick" question-types revealed • full set of all possible step-by-step solution approaches • examination reports revealing common mistakes & wrong habits • short side-reading notes • easy-to-implement check-back procedure • Complete edition eBook only
A-level Mathematics Teacher's Reference (Yellowreef) SAGE Publications
This book consists of peer-reviewed proceedings from the International Conference on Innovations in Mechanical Engineering (ICIME 2020). The contents cover latest research in all major areas of mechanical engineering, and are broadly divided into five parts: (i) thermal engineering, (ii) design and optimization, (iii) production and industrial engineering, (iv) materials science and metallurgy, and (v) multidisciplinary topics. Different aspects of designing, modeling, manufacturing, optimizing, and processing are discussed in the context of emerging applications. Given the range of topics covered, this book can be useful for students, researchers as well as professionals.
Differential Forms in Algebraic Topology Cambridge University Press
Inspire and equip current and future classroom teachers to ADAPT to the needs of all students. Teaching Students with Special Needs in Inclusive Classrooms uses the research-validated ADAPT framework (Ask, Determine, Analyze, Propose, Test) to help teachers determine how, when, and with whom to use proven academic and behavioral interventions to obtain the best outcomes for students with disabilities. Through clear language and practical examples, authors Diane P. Bryant, Brian R. Bryant, and Deborah D. Smith show how to create truly inclusive classrooms through evidence-based practices and hands-on strategies. The Second Edition includes strategically reorganized chapters, a new chapter devoted to differentiated instruction, and new classroom footage and teacher interviews illustrating how readers can implement the strategies discussed in their own classrooms. With the help of this supportive guide, educators will be inspired to teach students with disabilities in inclusive settings and be properly equipped to do so effectively. A Complete Teaching & Learning Package SAGE Premium Video Included in the interactive eBook! SAGE Premium Video tools and resources boost comprehension and bolster analysis. Interactive eBook Your students save when you bundle the print version with the Interactive eBook (Bundle ISBN: 978-1-5443-7037-8), which includes access to SAGE Premium Video and other multimedia tools. SAGE coursepacks SAGE coursepacks makes it easy to import our quality instructor and student resource content into your school's learning management system (LMS). Intuitive and simple to use, SAGE coursepacks allows you to customize course content to meet your students' needs. SAGE edge This companion website offers both instructors and students a robust online environment with an impressive array of teaching and learning resources.
Periodic Solutions of Hamiltonian Systems and Related Topics Springer Nature
This book has been replaced by Assessment of Disorders in Childhood and Adolescence, Fifth Edition, ISBN 978-1-4625-4363-2.
The Church of England Magazine Princeton University Press
A robust manufacturing sector is a necessity and a sufficient condition for any country's human and economic development as it creates employment and alleviates poverty. During this Fourth Industrial Revolution era, there is an urgent need in Africa to optimally utilize the existing resources to support manufacturing or else risk allowing the continent to fall behind in the industrial economy. Innovative strategies are needed that can unlock Africa's manufacturing potential by exploring key areas that may help Africa mature and launch modernized economies that will benefit the developed world's industrial economy. The Handbook of Research on Nurturing Industrial Economy for Africa's Development examines various innovations necessary for Africa's economic development including drivers of the manufacturing economy such as education, agriculture, human capital, science and technological innovations, language, politics, and business environments. The book explores strategies to increase Africa's economic diversity, complexity, productivity, and ultimately competitiveness, and for the continent to realize its manufacturing/industrial potential. Further, chapters focus on African countries' industrial economies in the African context and facilitating the

fulfillment of the Sustainable Development Goals (SDGs) and the African Union's Agenda 2063. This book is a valuable reference tool for government officials, economists, industrialists, practitioners, stakeholders, researchers, academicians, and students interested in the industrial economic development of Africa.

Mathematical Reviews Atlanta, Ga : Tappi Press

This book collects approximately nine hundred problems that have appeared on the preliminary exams in Berkeley over the last twenty years. It is an invaluable source of problems and solutions. Readers who work through this book will develop problem solving skills in such areas as real analysis, multivariable calculus, differential equations, metric spaces, complex analysis, algebra, and linear algebra.

Morse Theory OUP Oxford

Knots are familiar objects. Yet the mathematical theory of knots quickly leads to deep results in topology and geometry. This work offers an introduction to this theory, starting with our understanding of knots. It presents the applications of knot theory to modern chemistry, biology and physics.

Soviet Mathematics Springer Science & Business Media

One of the most cited books in mathematics, John Milnor's exposition of Morse theory has been the most important book on the subject for more than forty years. Morse theory was developed in the 1920s by mathematician Marston Morse. (Morse was on the faculty of the Institute for Advanced Study, and Princeton published his Topological Methods in the Theory of Functions of a Complex Variable in the Annals of Mathematics Studies series in 1947.) One classical application of Morse theory includes the attempt to understand, with only limited information, the large-scale structure of an object. This kind of problem occurs in mathematical physics, dynamic systems, and mechanical engineering. Morse theory has received much attention in the last two decades as a result of a famous paper in which theoretical physicist Edward Witten relates Morse theory to quantum field theory. Milnor was awarded the Fields Medal (the mathematical equivalent of a Nobel Prize) in 1962 for his work in differential topology. He has since received the National Medal of Science (1967) and the Steele Prize from the American Mathematical Society twice (1982 and 2004) in recognition of his explanations of mathematical concepts across a wide range of scienti.c disciplines. The citation reads, "The phrase sublime elegance is rarely associated with mathematical exposition, but it applies to all of Milnor's writings. Reading his books, one is struck with the ease with which the subject is unfolding and it only becomes apparent after re.ection that this ease is the mark of a master.' Milnor has published five books with Princeton University Press.

Proceedings of the American Mathematical Society Springer Nature

This volume contains the proceedings of a NATO Advanced Research Workshop on Periodic Solutions of Hamiltonian Systems held in Il Ciocco, Italy on October 13-17, 1986. It also contains some papers that were an outgrowth of the meeting. On behalf of the members of the Organizing Committee, who are also the editors of these proceedings, I thank all those whose contributions made this volume possible and the NATO Science Committee for their generous financial support. Special thanks are due to Mrs. Sally Ross who typed all of the papers in her usual outstanding fashion. Paul H. Rabinowitz Madison, Wisconsin April 2, 1987 xi 1 PERIODIC SOLUTIONS OF SINGULAR DYNAMICAL SYSTEMS Antonio Ambrosetti Vittorio Coti Zelati Scuola Normale Superiore SISSA Piazza dei Cavalieri Strada Costiera 11 56100 Pisa, Italy 34014 Trieste, Italy ABSTRACT. The paper contains a discussion on some recent advances in the existence of periodic solutions of some second order dynamical systems with singular potentials. The aim of this paper is to discuss some recent advances in th.e existence of periodic solutions of some second order dynamical systems with singular potentials.

Application of Intelligent Systems in Multi-modal Information Analytics IGI Global

A concise introduction to numerical methodsand the mathematicalframework neededto understand their performance Numerical Solution of Ordinary Differential Equationspresents a complete and easy-to-follow introduction to classicaltopics in the numerical solution of ordinary differentialequations. The book's approach not only explains the presentedmathematics, but also helps readers understand how these numericalmethods are used to solve real-world problems. Unifying perspectives are provided throughout the text, bringingtogether and categorizing different types of problems in order tohelp readers comprehend the applications of ordinary differentialequations. In addition, the authors' collective academic experienceensures a coherent and accessible discussion of key topics,including: Euler's method Taylor and Runge-Kutta methods General error analysis for multi-step methods Stiff differential equations Differential algebraic equations Two-point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to testand build their knowledge of the presented methods, and a relatedWeb site features MATLAB® programs that facilitate theexploration of numerical methods in greater depth. Detailedreferences outline additional literature on both analytical andnumerical aspects of ordinary differential equations for furtherexploration of individual topics. Numerical Solution of Ordinary Differential Equations isan excellent textbook for courses on the numerical solution ofdifferential equations at the upper-undergraduate and beginninggraduate levels. It also serves as a valuable reference forresearchers in the fields of mathematics and engineering.

Catalogue of the London Library Frontiers Media SA

The theory of random graphs began in the late 1950s in several papers by Erdos and Renyi. In the late twentieth century, the notion of six degrees of separation, meaning that any two people on the planet can be connected by a short chain of people who know each other, inspired Strogatz and Watts to define the small world random graph in which each site is connected to k close neighbors, but also has long-range connections. At a similar time, it was observed in human social and sexual networks and on the Internet that the number of neighbors of an individual or computer has a power law distribution. This inspired Barabasi and Albert to define the preferential attachment model, which has these properties. These two papers have led to an explosion of research. The purpose of this book is to use a wide variety of mathematical argument to obtain insights into the properties of these graphs. A unique feature is the interest in the dynamics of process taking place on the graph in addition to their geometric properties, such as connectedness and diameter.

Berkeley Problems in Mathematics John Wiley & Sons

In the folklore of mathematics, James Joseph Sylvester (1814-1897) is the eccentric, hot-tempered, sword-cane-wielding, nineteenth-century British Jew who, together with the taciturn Arthur Cayley, developed a theory and language of invariants that then died spectacularly in the 1890s as a result of David Hilbert's groundbreaking, 'modern' techniques. This, like all folklore, has some grounding in fact but owes much to fiction. The

present volume brings together for the first time 140 letters from Sylvester's correspondence in an effort to establish the true picture. It reveals - through the letters as well as through the detailed mathematical and historical commentary accompanying them - Sylvester the friend, man of principle, mathematician, poet, professor, scientific activist, social observer, traveller. It also provides a detailed look at Sylvester's thoughts and thought processes as it shows him acting in both personal and professional spheres over the course of his eighty-two year life. The Sylvester who emerges from this analysis - unlike the Sylvester of the folkloric caricature - offers deep insight into the development of the technical and social structures of mathematics.

Knots and Links American Mathematical Soc.

Rolfsen's beautiful book on knots and links can be read by anyone, from beginner to expert, who wants to learn about knot theory. Beginners find an inviting introduction to the elements of topology, emphasizing the tools needed for understanding knots, the fundamental group and van Kampen's theorem, for example, which are then applied to concrete problems, such as computing knot groups. For experts, Rolfsen explains advanced topics, such as the connections between knot theory and surgery and how they are useful to understanding three-manifolds. Besides providing a guide to understanding knot theory, the book offers 'practical' training. After reading it, you will be able to do many things: compute presentations of knot groups, Alexander polynomials, and other invariants; perform surgery on three-manifolds; and visualize knots and their complements.It is characterized by its hands-on approach and emphasis on a visual, geometric understanding. Rolfsen offers invaluable insight and strikes a perfect balance between giving technical details and offering informal explanations. The illustrations are superb, and a wealth of examples are included. Now back in print by the AMS, the book is still a standard reference in knot theory. It is written in a remarkable style that makes it useful for both beginners and researchers. Particularly noteworthy is the table of knots and links at the end. This volume is an excellent introduction to the topic and is suitable as a textbook for a course in knot theory or 3-manifolds. Other key books of interest on this topic available from the AMS are ""The Shoelace Book: A Mathematical Guide to the Best (and Worst) Ways to Lace your Shoes"" and ""The Knot Book.""

Moscow University Mathematics Bulletin Springer Science & Business Media

Contains the material formerly published in even-numbered issues of the Bulletin of the American Mathematical Society.

Quantitative Characterization and Engineering Application of Pores and Fractures of Different Scales in Unconventional Reservoirs American Mathematical Soc.

This book provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. Specifically, it addresses a number of broad themes, including multi-modal informatics, data mining, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The book covers a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals and a useful reference guide for newcomers to the field. This book is a compilation of the papers presented in the 4th International Conference on Multi-modal Information Analytics, held online, on April 23, 2022.

A Synopsis of Elementary Results in Pure and Applied Mathematics Yellowreef Limited

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All the Mathematics You Missed