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Basic Concepts of Algebraic Topology F.H. Croom 1978-05-01 This text is intended as a one semester introduction to algebraic topology at the undergraduate and beginning graduate levels. Basically, it covers simplicial homology theory, the fundamental group, covering spaces, the higher homotopy groups and introductory singular homology theory. The text follows a broad historical outline and uses the proofs of the discoverers of the important theorems when this is consistent with the elementary level of the course. This method of presentation is intended to reduce the abstract nature of algebraic topology to a level that is palatable for the beginning student and to provide motivation and cohesion that are often lacking in abstact treatments. The text emphasizes the geometric approach to algebraic topology and attempts to show the importance of topological concepts by applying them to problems of geometry and analysis. The prerequisites for this course are calculus at the sophomore level, a one semester introduction to the theory of groups, a one semester introduc tion to point-set topology and some familiarity with vector spaces. Outlines of the prerequisite material can be found in the appendices at the end of the text. It is suggested that the reader not spend time initially working on the appendices, but rather that he read from the beginning of the text, referring to the appendices as his memory needs refreshing. The text is designed for use by college juniors of normal intelligence and does not require "mathematical maturity" beyond the junior level.
Mathematical Reviews 1972
Bibliographic Index 1982
Principles of Topology Fred H. Croom 2016-02-17 Originally published: Philadelphia: Saunders College Publishing, 1989; slightly corrected.
Reviews in K-theory, 1940-84 Bruce A. Magurn 1985
Economic Books 1985
Multiple Object Motion Planning Gordon Thomas Wilfong 1984
Library of Congress Catalogs Library of Congress 1979
DNA Topology and Its Biological Effects Nicholas R. Cozzarelli 1990
Certain Number-Theoretic Episodes In Algebra, Second Edition Sivaramakrishnan R 2019-03-19 The book attempts to point out the interconnections between number theory and algebra with a view to making a student understand certain basic concepts in the two areas forming the subject-matter of the book.
The Cumulative Book Index 1986 A world list of books in the English language.
Mathematical Physics: Classical Mechanics Andreas Knauf 2018-02-24 As a limit theory of quantum mechanics, classical dynamics comprises a large variety of phenomena, from computable (integrable) to chaotic (mixing) behavior. This book presents the KAM (Kolmogorov-Arnold-Moser) theory and asymptotic completeness in classical scattering. Including a wealth of fascinating examples in physics, it offers not only an excellent selection of basic topics, but also an introduction to a number of current areas of research in the field of classical mechanics. Thanks to the didactic structure and concise appendices, the presentation is self-contained and requires only knowledge of the basic courses in mathematics. The book addresses the needs of graduate and senior undergraduate students in mathematics and physics, and of researchers interested in approaching classical mechanics from a modern point of view.
Handbook of Social Choice and Welfare Kenneth J. Arrow 2010-10-13 This second part of a two-volume set continues to describe economists' efforts to quantify the social decisions people necessarily make and the philosophies that those choices define. Contributors draw on lessons from philosophy, history, and other disciplines, but they ultimately use editor Kenneth Arrow's seminal work on social choice as a jumping-off point for discussing ways to incentivize, punish, and distribute goods. Develops many subjects from Volume 1 (2002) while introducing new themes in welfare economics and social choice theory Features four sections: Foundations, Developments of the Basic Arrovian Schemes, Fairness and Rights, and Voting and Manipulation Appeals to readers who seek introductions to writings on human well-being and collective decision-making Presents a spectrum of material, from initial insights and basic functions to important variations on basic schemes
CompTIA Network+ N10-007 Cert Guide Anthony J. Sequeira 2018-02-12 This is the eBook version of the print title. Note that only the Amazon Kindle version or the Premium Edition eBook and Practice Test available on the Pearson IT Certification web site come with the unique access code that allows you to use the practice test software that accompanies this book. All other eBook versions do not provide access to the practice test software that accompanies the print book. Access to the companion web site is available through product registration at Pearson IT Certification; or see

instructions in back pages of your eBook. Learn, prepare, and practice for CompTIA Network+ N10-007 exam success with this CompTIA approved Cert Guide from Pearson IT Certification, a leader in IT Certification learning and a CompTIA Authorized Platinum Partner. Master CompTIA Network+ N10-007 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Practice with realistic exam questions Learn from more than 60 minutes of video mentoring CompTIA Network+ N10-007 Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor Anthony Sequeira shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The companion website contains a host of tools to help you prepare for the exam, including: The powerful Pearson Test Prep practice test software, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. More than 60 minutes of personal video mentoring 40 performance-based exercises to help you prepare for the performance-based questions on the exam The CompTIA Network+ N10-007 Hands-on Lab Simulator Lite software, complete with meaningful exercises that help you hone your hands-on skills An interactive Exam Essentials appendix that quickly recaps all major chapter topics for easy reference A key terms glossary flash card application Memory table review exercises and answers A study planner to help you organize and optimize your study time A 10% exam discount voucher (a $27 value!) Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA approved study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA approved study guide helps you master all the topics on the Network+ exam, including: Computer networks and the OSI model Network components Ethernet IP addressing Routing traffic Wide Area Networks (WANs) Wireless Technologies Network performance Command-line utilities Network management Network policies and best practices Network security Troubleshooting Pearson Test Prep system requirements: Online: Browsers: Chrome version 40 and above; Firefox version 35 and above; Safari version 7; Internet Explorer 10, 11; Microsoft Edge; Opera. Devices: Desktop and laptop computers, tablets running on Android and iOS, smartphones with a minimum screen size of 4.7". Internet access required. Offline: Windows 10, Windows 8.1, Windows 7; Microsoft .NET Framework 4.5 Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases Lab Simulator Minimum System Requirements: Windows: Microsoft Windows 10, Windows 8.1, Windows 7 with SP1; Intel Pentium III or faster; 512 MB RAM (1GB recommended); 1.5 GB hard disk space; 32-bit color depth at 1024x768 resolution Mac: Apple macOS 10.13, 10.12, 10.11, 10.10; Intel Core Duo 1.83 Ghz or faster; 512 MB RAM (1 GB recommended); 1.5 GB hard disk space; 32-bit color depth at 1024x768 resolution Other applications installed during installation: Adobe AIR 3.8; Captive JRE 6

A Topology of Everyday Constellations Georges Teyssot 2013-02-22 The threshold as both boundary and bridge: investigations of spaces, public and private, local and global. Today, spaces no longer represent a bourgeois haven; nor are they the sites of a classical harmony between work and leisure, private and public, the local and the global. The house is not merely a home but a position for negotiations with multiple spheres—the technological as well as the physical and the psychological. In A Topology of Everyday Constellations, Georges Teyssot considers the intrusion of the public sphere into private space, and the blurring of notions of interior, privacy, and intimacy in our societies. He proposes that we rethink design in terms of a new definition of the practices of everyday life. Teyssot considers the door, the window, the mirror, and the screen as thresholds or interstitial spaces that divide the world in two: the outside and the inside. Thresholds, he suggests, work both as markers of boundaries and as bridges to the exterior. The stark choice between boundary and bridge creates a middle space, an in-between that holds the possibility of exchanges and encounters. If the threshold no longer separates public from private, and if we can no longer think of the house as a bastion of privacy, Teyssot asks, does the body still inhabit the house—or does the house, evolving into a series of microdevices, inhabit the body?

Mathematische Physik: Klassische Mechanik Andreas Knauf 2017-10-05 Als Grenztheorie der Quantenmechanik besitzt die klassische Dynamik einen großen Formenreichtum – vom gut berechenbaren bis zum chaotischen Verhalten. Ausgehend von interessanten Beispielen wird in dem Band nicht nur eine gelungene Auswahl grundlegender Themen vermittelt, sondern auch der Einstieg in viele aktuelle Forschungsgebiete im Bereich der klassischen Mechanik. Didaktisch geschickt aufgebaut und mit hilfreichen Anhängen versehen, werden lediglich Kenntnisse der Grundvorlesungen in Mathematik vorausgesetzt. Mit über 100 Aufgaben und Lösungen.

Journal of Economic Literature 1985

Nuclear Science Abstracts 1971 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976, pre-dating the prestigious INIS database, which began in 1970. NSA existed as a printed product (Volumes 1-33) initially, created by DOE's predecessor, the U.S. Atomic Energy Commission (AEC). NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors, plus other agencies and international organizations, universities, and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings, and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.

International Books in Print, 1995

Barbara Hopkinson 1995
Who's who in Technology Today: Electronic and physics technologies 1982 Directory of leading scientists and engineers who are the leaders in the most important areas of American technology. Each entry gives education, publications, achievements, area of expertise, honors, patents, and personal information.
Cumulative Book Index 1986
Bulletin 1994
Innovative Numerical Analysis for the Engineering Sciences Richard Paul Shaw 1980
Principles of Topology Fred H. Croom 2016-03-17 Topology is a natural, geometric, and intuitively appealing branch of mathematics that can be understood and appreciated by students as they begin their study of advanced mathematical topics. Designed for a one-semester introduction to topology at the undergraduate and beginning graduate levels, this text is accessible to students familiar with multivariable calculus. Rigorous but not abstract, the treatment emphasizes the geometric nature of the subject and the applications of topological ideas to geometry and mathematical analysis. Customary topics of point-set topology include metric spaces, general topological spaces, continuity, topological equivalence, basis, subbasis, connectedness, compactness, separation properties, metrization, subspaces, product spaces, and quotient spaces. In addition, the text introduces geometric, differential, and algebraic topology. Each chapter includes historical notes to put important developments into their historical framework. Exercises of varying degrees of difficulty form an essential part of the text.
Index of Mathematical Papers 1972
Who's who in Technology 1986
Bangs, Crunches, Whimpers, and Shrieks John Earman 1995-11-02 Almost from its inception, Einstein's general theory of relativity was known to sanction spacetime models harboring singularities. Until the 1960s, however, spacetime singularities were thought to be artifacts of the idealizations of the models. This attitude evaporated in the face of a series of theorems, due largely to Stephen Hawking and Roger Penrose, which showed that Einstein's general theory implies that singularities can be expected to occur in a wide variety of conditions in both gravitational collapse and in cosmology. In the light of these results some physicists adopted the attitude that, since spacetime singularities are intolerable, general relativity contains within itself the seeds of its own destruction. Others hoped that peaceful coexistence with singularities could be achieved by proving a form of Roger Penrose's cosmic censorship hypothesis, which would place singularities safely inside black holes. Whatever the attitude one adopts toward spacetime singularities, it is evident that they raise a number of foundational problems for physics and have profound implications for the philosophy of space and time. However, philosophers of science have been slow to awaken to the significance of these developments. Indeed, this is the first serious book-length study of the subject by a philosopher of science. It features an overview of the literature on singularities, as well as an analytic commentary on their significance to a number of scientific and philosophical issues.
Basic Concepts of Algebraic Topology F.H. Croom 2012-12-06 This text is intended as a one semester introduction to algebraic topology at the undergraduate and beginning graduate levels. Basically, it covers simplicial homology theory, the fundamental group, covering spaces, the higher homotopy groups and introductory singular homology theory. The text follows a broad historical outline and uses the proofs of the discoverers of the important theorems when this is consistent with the elementary level of the course. This method of presentation is intended to reduce the abstract nature of algebraic topology to a level that is palatable for the beginning student and to provide motivation and cohesion that are often lacking in abstact treatments. The text emphasizes the geometric approach to algebraic topology and attempts to show the importance of topological concepts by applying them to problems of geometry and analysis. The prerequisites for this course are calculus at the sophomore level, a one semester introduction to the theory of groups, a one semester introduc tion to point-set topology and some familiarity with vector spaces. Outlines of the prerequisite material can be found in the appendices at the end of the text. It is suggested that the reader not spend time initially working on the appendices, but rather that he read from the beginning of the text, referring to the appendices as his memory needs refreshing. The text is designed for use by college juniors of normal intelligence and does not require "mathematical maturity" beyond the junior level.
Notices of the American Mathematical Society American Mathematical Society 1972
Certain Number-Theoretic Episodes In Algebra Sivaramakrishnan R 2006-09-22 Many basic ideas of algebra and number theory intertwine, making it ideal to explore both at the same time. Certain Number-Theoretic Episodes in Algebra focuses on some important aspects of interconnections between number theory and commutative algebra. Using a pedagogical approach, the author presents the conceptual foundations of commutati
Nonlinear Approximation Theory Dietrich Braess 2012-12-06 The first investigations of nonlinear approximation problems were made by P.L. Chebyshev in the last century, and the entire theory of uniform approxima tion is strongly connected with his name. By making use of his ideas, the theories of best uniform approximation by rational functions and by polynomials were developed over the years in an almost unified framework. The difference between linear and rational approximation and its implications first became apparent in the 1960's. At roughly the same time other approaches to nonlinear approximation were also developed. The use of new tools, such as nonlinear functional analysis and topological methods, showed that linearization is not sufficient for a complete treatment of nonlinear families. In particular, the application of global analysis and the consideration of flows on the family of approximating functions intro duced ideas which were previously unknown in approximation theory. These were and still are important in many branches of analysis. On the other hand, methods developed for nonlinear approximation prob lems can often be successfully applied to problems which belong to or arise from linear approximation. An important example is the solution of moment problems via rational approximation. Best quadrature formulae or the search for best linear spaces often leads to the consideration

of spline functions with free nodes. The most famous problem of this kind, namely best interpolation by poly nomials, is treated in the appendix of this book.
Sunspots: Theory and Observations J.H. Thomas 2012-12-06 This volume contains the invited papers presented at the NATO Advanced Research Workshop on the Theory of Sunspots, held in Cambridge, England, 22-27 September 1991. The idea of holding this Workshop first arose during the Solar Optical Telescope work shop on Theoretical Problems in High-Resolution Solar Physics in Munich in 1985. At that meeting, separate discussion groups were formed to consider specific topics in solar physics. The discussion group on sunspots recommended that there be a meeting devoted to theoretical problems associated with sunspots, the motivation being the consensus that theory seemed to lag behind the observational evidence in our quest for a satisfactory un derstanding of the physics of sunspots. This recommendation was warmly received and the two of us were designated to organize the Workshop. Although the Workshop eventually took place later than originally envisioned, the de lay turned out to be fortunate and the timing of the Workshop was ideal for a number of reasons. There have been remarkable improvements in high-resolution observations of sunspots in the past few years, and many important new observational results were pre sented for the first time at this Workshop (by groups working at the Lockheed Palo Alto Research Laboratories, the Swedish and German telescopes in the Canary Islands, and the V. S. National Solar Observatory). Vector magnetographs and Stokes polarimetry have at last given us reliable measurements of the vector magnetic fields in sunspots.
Books in Print Supplement 1994
Who's who in Technology Today 1981
Bulletin Institute of Mathematics and Its Applications 1983
Social Computing and Social Media. Human Behavior Gabriele Meiselwitz 2017-05-11 This book constitutes the proceedings of the 9th International Conference on Social Computing and Social Media, SCSM 2017, held as part of the 19th International Conference on Human-Computer Interaction, HCII 2017, held in Vancouver, Canada, in July 2017. HCII 2017 received a total of 4340 submissions, of which 1228 papers were accepted for publication after a careful reviewing process. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The two volumes set of SCSM 2017 presents 67 papers which are organized in the following topical sections: user experience and behavior in social media, costumer behavior and social media, social issues in social media, social media for communication, learning and aging, opinion mining and sentiment analysis, social data and analytics.
The American Mathematical Monthly 1979
Dynamical Systems 1998-11-17 Several distinctive aspects make Dynamical Systems unique, including: treating the subject from a mathematical perspective with the proofs of most of the results included providing a careful review of background materials introducing ideas through examples and at a level accessible to a beginning graduate student Geometric Optimal Control Heinz Schättler 2012-06-26 This book gives a comprehensive treatment of the fundamental necessary and sufficient conditions for optimality for finite-dimensional, deterministic, optimal control problems. The emphasis is on the geometric aspects of the theory and on illustrating how these methods can be used to solve optimal control problems. It provides tools and techniques that go well beyond standard procedures and can be used to obtain a full understanding of the global structure of solutions for the underlying problem. The text includes a large number and variety of fully worked out examples that range from the classical problem of minimum surfaces of revolution to cancer treatment for novel therapy approaches. All these examples, in one way or the other, illustrate the power of geometric techniques and methods. The versatile text contains material on different levels ranging from the introductory and elementary to the advanced. Parts of the text can be viewed as a comprehensive textbook for both advanced undergraduate and all level graduate courses on optimal control in both mathematics and engineering departments. The text moves smoothly from the more introductory topics to those parts that are in a monograph style were advanced topics are presented. While the presentation is mathematically rigorous, it is carried out in a tutorial style that makes the text accessible to a wide audience of researchers and students from various fields, including the mathematical sciences and engineering. Heinz Schättler is an Associate Professor at Washington University in St. Louis in the Department of Electrical and Systems Engineering, Urszula Ledzewicz is a Distinguished Research Professor at Southern Illinois University Edwardsville in the Department of Mathematics and Statistics.
The British National Bibliography Arthur James Wells 1990