

Intuitive Topology

V. V. Prasolov

The title is highly descriptive of the contents of this book. The reader is carried along, mostly through sketches in rubber sheet geometry, to an appreciation of some interesting knot and link theory ... In all, a most entertaining exposition.

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This book is an introduction to elementary topology presented in an intuitive way, emphasizing the visual aspect. Examples of nontrivial and often unexpected topological phenomena acquaint the reader with the picturesque world of knots, links, vector fields, and two-dimensional surfaces. The book begins with definitions presented in a tangible and perceptible way, on an everyday level, and progressively makes them more precise and rigorous, eventually reaching the level of fairly sophisticated proofs. This allows meaningful problems to be tackled from the outset. Another unusual trait of this book is that it deals mainly with constructions and maps, rather than with proofs that certain maps and constructions do or do not exist. The numerous illustrations are an essential feature. The book is accessible not only to undergraduates but also to high school students and will interest any reader who has some feeling for the visual elegance of geometry and topology.

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Intuitive Topology:

Intuitive Topology Viktor Vasil'evich Prasolov, 1995 This book is an introduction to elementary topology presented in an intuitive way emphasizing the visual aspect Examples of nontrivial and often unexpected topological phenomena acquaint the reader with the picturesque world of knots links vector fields and two dimensional surfaces The book begins with definitions presented in a tangible and perceptible way on an everyday level and progressively makes them more precise and rigorous eventually reaching the level of fairly sophisticated proofs This allows meaningful problems to be tackled from the outset Another unusual trait of this book is that it deals mainly with constructions and maps rather than with proofs that certain maps and constructions do or do not exist The numerous illustrations are an essential feature The book is accessible not only to undergraduates but also to high school students and will interest any reader who has some feeling for the visual elegance of geometry and topology

Intuitive Topology Viktor Vasil'evich Prasolov, 1991 Intuitive Combinatorial Topology V.G. Boltyanskii, V.A. Efremovich, 2013-03-09 Topology is a relatively young and very important branch of mathematics It studies properties of objects that are preserved by deformations twistings and stretchings but not tearing This book deals with the topology of curves and surfaces as well as with the fundamental concepts of homotopy and homology and does this in a lively and well motivated way There is hardly an area of mathematics that does not make use of topological results and concepts The importance of topological methods for different areas of physics is also beyond doubt They are used in field theory and general relativity in the physics of low temperatures and in modern quantum theory The book is well suited not only as preparation for students who plan to take a course in algebraic topology but also for advanced undergraduates or beginning graduates interested in finding out what topology is all about The book has more than 200 problems many examples and over 200 illustrations

Algebraic Topology: An Intuitive Approach Hajime Satō, 1999 Develops an introduction to algebraic topology mainly through simple examples built on cell complexes Topics covers include homeomorphisms topological spaces and cell complexes homotopy homology cohomology the universal coefficient theorem fiber bundles and vector bundles and spectral sequences Includes chapter summaries exercises and answers Includes an appendix of definitions in sets topology and groups Originally published in Japanese by Iwanami Shoten Publishers Tokyo 1996 Annotation copyrighted by Book News Inc Portland OR

Intuitive Concepts in Elementary Topology B. H. Arnold, 2011-06-01 Classroom tested and much cited this concise text is designed for undergraduates It offers a valuable and instructive introduction to the basic concepts of topology taking an intuitive rather than an axiomatic viewpoint Well illustrated with figures and diagrams it can serve as either a primary text or a valuable supplement 1962 edition

The Mathematical Experience, Study Edition Philip Davis, Reuben Hersh, Elena Anne Marchisotto, 2011-10-27 Winner of the 1983 National Book Award a perfectly marvelous book about the Queen of Sciences from which one will get a real feeling for what mathematicians do and who they are The exposition is clear and full of wit and humor The New Yorker 1983 National Book Award edition Mathematics has been a

human activity for thousands of years Yet only a few people from the vast population of users are professional mathematicians who create teach foster and apply it in a variety of situations The authors of this book believe that it should be possible for these professional mathematicians to explain to non professionals what they do what they say they are doing and why the world should support them at it They also believe that mathematics should be taught to non mathematics majors in such a way as to instill an appreciation of the power and beauty of mathematics Many people from around the world have told the authors that they have done precisely that with the first edition and they have encouraged publication of this revised edition complete with exercises for helping students to demonstrate their understanding This edition of the book should find a new generation of general readers and students who would like to know what mathematics is all about It will prove invaluable as a course text for a general mathematics appreciation course one in which the student can combine an appreciation for the esthetics with some satisfying and revealing applications The text is ideal for 1 a GE course for Liberal Arts students 2 a Capstone course for perspective teachers 3 a writing course for mathematics teachers A wealth of customizable online course materials for the book can be obtained from Elena Anne Marchisotto elena marchisotto csun edu upon request

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Self-evolving Cosmos, The: A Phenomenological Approach To Nature's Unity-in-diversity Steven M Rosen, 2008-02-22 This unique book offers an original way of thinking about two of the most significant problems confronting modern theoretical physics the unification of the forces of nature and the evolution of the universe In bringing out the inadequacies of the prevailing approach to these questions the author demonstrates the need for more than just a new theory The meanings of space and time themselves must be radically rethought which requires a whole new philosophical foundation To this end the book turns to the phenomenological writings of Maurice Merleau Ponty and Martin Heidegger Their insights into space and time bring the natural world to life in a manner well suited to the dynamic phenomena of contemporary physics In aligning continental thought with problems in physics and cosmology the book makes use of topology Phenomenological intuitions about space and time are systematically fleshed out via an unconventional and innovative approach to this qualitative branch of mathematics The author's pioneering work in topological phenomenology is applied to such topics as quantum gravity cosmogony symmetry spin vorticity dimension theory Kaluza Klein and string theories fermion boson interrelatedness hypernumbers and the mind matter interface

A Structuralist Theory of Economics Adolfo García de la Sienra, 2019-01-15 Economists have long grappled with the problem of how economic theories relate to empirical evidence how can abstract mathematized theories be used to produce empirical claims How are such theories applied to economic phenomena What does it mean to test economic theories This book introduces explains and develops a structural philosophy of economics which addresses these questions and provides a unifying philosophical logical basis for a general methodology of economics The book begins by introducing a rigorous view of the logical foundations and structure of scientific theories based upon the work of Alfred Tarski Patrick Suppes Karl Marx and others Using and combining their methods the book then goes on to reconstruct important economic theories including utility theory game theory Marxian economics Sraffian economic theory and econometrics proving all the main theorems and discussing the key claims and the empirical applicability of each theory Through these discussions this book presents in a systematic fashion a general philosophy of economics grounded in the structural view Offering rigorous formulations of important economic theories *A Structuralist Theory of Economics* will be invaluable to all readers interested in the logic philosophy and methodology of economics It will also appeal particularly to those interested in economic theory

Differential Forms in Mathematical Physics, 2009-06-17 *Differential Forms in Mathematical Physics*

Advanced Techniques in Porous Structure Design for Additive Manufacturing Musaddiq Al Ali, 2025-08-19 Concise practical guide presenting skills to integrate porous structure design with additive manufacturing requirements Part of Wiley's Additive Manufacturing Skills in Practice series and written with the industry practitioner in mind *Advanced Techniques in Porous Structure Design for Additive Manufacturing* addresses the growing integration of porous structures and additive manufacturing essential for applications in the biomedical aerospace and automotive fields in which porous structures are crucial due to their ability to deliver top notch performance alongside lightweight characteristics

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What Is Mathematics, Really? Reuben Hersh, 1997-08-21 Most philosophers of mathematics treat it as isolated timeless ahistorical inhuman Reuben Hersh argues the contrary that mathematics must be understood as a human activity a social phenomenon part of human culture historically evolved and intelligible only in a social context Hersh pulls the screen back to reveal mathematics as seen by professionals debunking many mathematical myths and demonstrating how the humanist idea of the nature of mathematics more closely resembles how mathematicians actually work At the heart of his book is a fascinating historical account of the mainstream of philosophy ranging from Pythagoras Descartes and Spinoza to Bertrand Russell David Hilbert and Rudolph Carnap followed by the mavericks who saw mathematics as a human artifact including Aristotle Locke Hume Mill and Lakatos What is Mathematics Really reflects an insider's view of mathematical life and will be hotly debated by anyone with an interest in mathematics or the philosophy of science

New Foundations for Physical Geometry Tim Maudlin, 2014-03-06 Topology is the mathematical study of the most basic geometrical structure of a space Mathematical physics uses topological spaces as the formal means for describing physical space and time This book proposes a completely new mathematical structure for describing geometrical notions such as continuity connectedness boundaries of sets and so on in order to provide a better mathematical tool for understanding space time This is the initial volume in a two volume set the first of which develops the mathematical structure and the second of which applies it to classical and Relativistic physics The book begins with a brief historical review of the development of mathematics as it relates to geometry and an overview of standard topology The new theory the Theory of Linear Structures is presented and compared to standard topology The Theory of Linear Structures replaces the foundational notion of standard topology the open set with the notion of a continuous line Axioms for the Theory of Linear Structures are laid down and definitions of other geometrical notions developed in those terms Various novel geometrical properties such as a space being intrinsically

directed are defined using these resources Applications of the theory to discrete spaces where the standard theory of open sets gets little purchase are particularly noted The mathematics is developed up through homotopy theory and compactness along with ways to represent both affine straight line and metrical structure *Novel Superfluids* K. H. Bennemann, John B. Ketterson, 2013-02-28 This book reports on the latest developments in the field of Superfluidity one of the most fundamental interesting and important problems in physics with applications ranging from metals helium liquids photons in cavities excitons in semiconductors to the interior of neutron stars and the present state of the Universe as a whole *The Collected Papers of R.h. Bing* R. H. Bing, 1988 A powerful mathematician and a great problem solver R H Bing laid the foundation for a number of areas of topology Many of his papers have continued to serve as a source of major theoretical developments and concrete applications in recent years One outstanding example was Michael H Freedman s use of Bing s Shrinking Criterion to solve the four dimensional Poincare Conjecture This two volume set brings together over one hundred of Bing s research expository and miscellaneous papers These works range over a great variety of topics in topology including the topology of manifolds decomposition spaces continua metrization general topology and geometric topology In addition there are a number of papers in the areas of convex functions linearity and conformal varieties The introductory section in the first volume provides historical background on Bing s life and achievements This collection will appeal to mathematicians in all areas and especially those in topology as well as students historians and educators in the mathematical sciences for it provides a complete historical summary of the mathematical events in the life of the man and the mathematician R H Bing

Elements of Homology Theory V. V. Prasolov, 2025-02-04 The book is a continuation of the previous book by the author Elements of Combinatorial and Differential Topology Graduate Studies in Mathematics Volume 74 American Mathematical Society 2006 It starts with the definition of simplicial homology and cohomology with many examples and applications Then the Kolmogorov Alexander multiplication in cohomology is introduced A significant part of the book is devoted to applications of simplicial homology and cohomology to obstruction theory in particular to characteristic classes of vector bundles The later chapters are concerned with singular homology and cohomology and ech and de Rham cohomology The book ends with various applications of homology to the topology of manifolds some of which might be of interest to experts in the area The book contains many problems almost all of them are provided with hints or complete solutions Cisco Cloud Infrastructure Avinash Shukla, Jalpa Patel, Komal Panzade, Himanshu Sardana, 2023-02-10 Manage operate and integrate existing infrastructure in hybrid and multicloud environments Hybrid cloud adoption is accelerating as companies discover that hybrid cloud architectures can reduce hosting costs improve agility promote scalability accelerate deployment and enhance security Cisco Cloud Infrastructure is the definitive reference for every IT professional IT manager and CIO who needs to understand implement or manage Cisco hybrid cloud solutions for networking compute storage applications or security Bringing together crucial information a team of leading Cisco architects present end to end insights for seamlessly

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MASS Selecta Svetlana Katok,A. B. Sossinsky,Serge Tabachnikov, This book results from a unique and innovative program at Pennsylvania State University Under the program the best of the best students nationwide are chosen to study challenging mathematical areas under the guidance of experienced mathematicians This program Mathematics Advanced Study Semesters MASS offers an unparalleled opportunity for talented undergraduate students who are serious in the pursuit of mathematical knowledge This volume represents various aspects of the MASS program over its six year existence including core courses summer courses students research and colloquium talks The book is most appropriate for college professors of mathematics who work with bright and eager undergraduate and beginning graduate students for such students who want to expand their mathematical horizons and for everyone who loves mathematics and wants to learn more interesting and unusual material The first half of the book contains lecture notes of nonstandard courses A text for a semester long course on p adic analysis is centered around contrasts and similarities with its real counterpart A shorter text focuses on a classical area of interplay between geometry algebra and number theory continued fractions hyperbolic geometry and quadratic forms Also provided are detailed descriptions of two innovative courses one on geometry and the other on classical mechanics These notes constitute what one may call the skeleton of a course leaving the instructor ample room for innovation and improvisation The second half of the book contains a large collection of essays on a broad spectrum of exciting topics from Hilbert s Fourth Problem to geometric inequalities and minimal surfaces from mathematical billiards to fractals and tilings from unprovable theorems to the classification of finite simple groups and lexicographic codes

Philosophy and Theory of Artificial Intelligence 2017 Vincent C. Müller, 2018-08-28 This book reports on the results of the third edition of the premier conference in the field of philosophy of artificial intelligence PT AI 2017 held on November 4 5 2017 at the University of Leeds UK It covers advanced knowledge on key AI concepts including complexity computation creativity embodiment representation and superintelligence cutting edge ethical issues such as the AI impact on human dignity and society responsibilities and rights of machines as well as AI threats to humanity and AI safety and cutting edge developments in techniques to achieve AI including machine learning neural networks dynamical systems The book also discusses important applications of AI including big data analytics expert systems cognitive architectures and robotics It offers a timely yet very comprehensive snapshot of what is going on in the field of AI especially at the interfaces between philosophy cognitive science ethics and computing

A Topological Aperitif Stephen Huggett, David Jordan, 2013-03-09 Topology has been referred to as rubber sheet geometry The name is apt for the subject is concerned with properties of an object that would be preserved no matter how much it is stretched squashed or distorted so long as it is not in any way torn apart or glued together One's first reaction might be that such an imprecise sounding subject could hardly be part of serious mathematics and would be unlikely to have applications beyond the amusement of simple parlour games This reaction could hardly be further from the truth Topology is one of the most important and broad ranging disciplines of modern mathematics It is a subject of great precision and of breadth of development It has vastly many applications some of great importance ranging from particle physics to cosmology and from hydrodynamics to algebra and number theory It is also a subject of great beauty and depth To appreciate something of this it is not necessary to delve into the more obscure aspects of mathematical formalism For topology is at least initially a very visual subject Some of its concepts apply to spaces of large numbers of dimensions and therefore do not easily submit to reasoning that depends upon direct pictorial representation

Intuitive Topology Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Intuitive Topology**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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