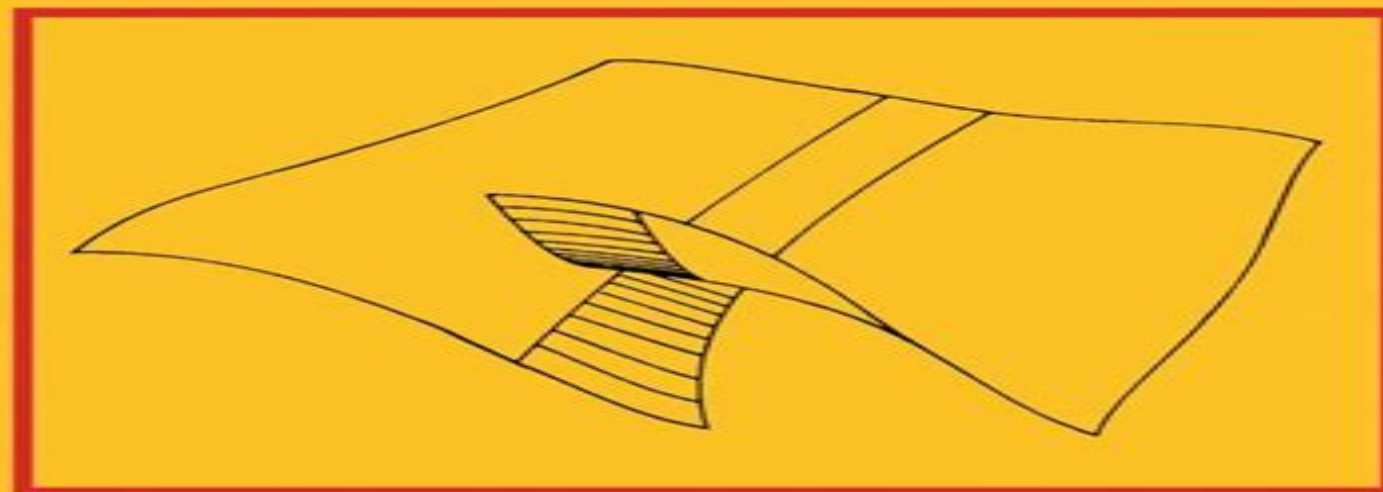


Undergraduate Texts in Mathematics

Klaus Jänich

Topology



Springer-Verlag

Topology Undergraduate Texts In Mathematics

L.Christine Kinsey



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Basic Topology M.A. Armstrong, 2013-04-09 In this broad introduction to topology the author searches for topological invariants of spaces together with techniques for calculating them Students with knowledge of real analysis elementary group theory and linear algebra will quickly become familiar with a wide variety of techniques and applications involving point set geometric and algebraic topology Over 139 illustrations and more than 350 problems of various difficulties will help students gain a rounded understanding of the subject

Topology of Surfaces L.Christine Kinsey, 2012-12-06 that famous pedagogical method whereby one begins with the general and proceeds to the particular only after the student is too confused to understand even that anymore Michael Spivak This text was written as an antidote to topology courses such as Spivak It is meant to provide the student with an experience in geomet describes ric topology Traditionally the only topology an undergraduate might see is point set topology at a fairly abstract level The next course the average student would take would be a graduate course in algebraic topology and such courses are commonly very homological in nature providing quick access to current research but not developing any intuition or geometric sense I have tried in this text to provide the undergraduate with a pragmatic introduction to the field including a sampling from point set geometric and algebraic topology and trying not to include anything that the student cannot immediately experience The exercises are to be considered as an integral part of the text and ideally should be addressed when they are met rather than at the end of a block of material Many of them are quite easy and are intended to give the student practice working with the definitions and digesting the current topic before proceeding The appendix provides a brief survey of the group theory needed

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 abstract 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 introduction 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

Topology Klaus

Jänich,2012-10-03 Contents Introduction Fundamental Concepts Topological Vector Spaces The Quotient Topology Completion of Metric Spaces Homotopy The Two Countability Axioms CW Complexes Construction of Continuous Functions on Topological Spaces Covering Spaces The Theorem of Tychonoff Set Theory by T Br cker References Table of Symbols Index

A Course in Point Set Topology John B. Conway,2013-11-04 This textbook in point set topology is aimed at an upper undergraduate audience Its gentle pace will be useful to students who are still learning to write proofs Prerequisites include calculus and at least one semester of analysis where the student has been properly exposed to the ideas of basic set theory such as subsets unions intersections and functions as well as convergence and other topological notions in the real line Appendices are included to bridge the gap between this new material and material found in an analysis course Metric spaces are one of the more prevalent topological spaces used in other areas and are therefore introduced in the first chapter and emphasized throughout the text This also conforms to the approach of the book to start with the particular and work toward the more general Chapter 2 defines and develops abstract topological spaces with metric spaces as the source of inspiration and with a focus on Hausdorff spaces The final chapter concentrates on continuous real valued functions culminating in a development of paracompact spaces

Topological Spaces Gerard Buskes,Arnoud van Rooij,2012-12-06 This book is a text not a reference on Point set Topology It addresses itself to the student who is proficient in Calculus and has some experience with mathematical rigor acquired e g via a course in Advanced Calculus or Linear Algebra To most beginners Topology offers a double challenge In addition to the strangeness of concepts and techniques presented by any new subject there is an abrupt rise of the level of abstraction It is a bad idea to teach a student two things at the same moment To mitigate the culture shock we move from the special to the general dividing the book into three parts 1 The Line and the Plane 2 Metric Spaces 3 Topological Spaces In this way the student has ample time to get acquainted with new ideas while still on familiar territory Only after that the transition to a more abstract point of view takes place Elementary Topology preeminently is a subject with an extensive array of technical terms indicating properties of topological spaces In the main body of the text we have purposely restricted our mathematical vocabulary as much as is reasonably possible Such an enterprise is risky Doubtlessly many readers will find us too thrifty To meet them halfway in Chapter 18 we briefly introduce and discuss a number of topological properties but even there we do not touch on paracompactness complete normality and extremal disconnectedness just to mention three terms that are not really esoteric

Dynamic Topology G. Whyburn,E. Duda,2012-12-06 It is a privilege for me to write a foreword for this unusual book The book is not primarily a reference work although many of the ideas and proofs are explained more clearly here than in any other source that I know Nor is this a text of the customary sort It is rather a record of a particular course and Gordon Whyburn s special method of teaching it Perhaps the easiest way to describe the course and the method is to relate my own personal experience with a forerunner of this same course in the academic year 1937 1938 At that time the course was offered every other year with a following course in

algebraic topology on alternate years There were five of us enrolled and on the average we knew less mathematics than is now routinely given in a junior course in analysis Whyburn's purpose as we learned was to prepare us in minimal time for research in the areas in which he was interested His method was remarkable

Lecture Notes on Elementary Topology and Geometry I.M. Singer, J.A. Thorpe, 2015-05-28 At the present time the average undergraduate mathematics major finds mathematics heavily compartmentalized After the calculus he takes a course in analysis and a course in algebra Depending upon his interests or those of his department he takes courses in special topics If he is exposed to topology it is usually straightforward point set topology if he is exposed to geometry it is usually classical differential geometry The exciting revelations that there is some unity in mathematics that fields overlap that techniques of one field have applications in another are denied the undergraduate He must wait until he is well into graduate work to see interconnections presumably because earlier he doesn't know enough These notes are an attempt to break up this compartmentalization at least in topology geometry What the student has learned in algebra and advanced calculus are used to prove some fairly deep results relating geometry topology and group theory De Rham's theorem the Gauss Bonnet theorem for surfaces the functorial relation of fundamental group to covering space and surfaces of constant curvature as homogeneous spaces are the most noteworthy examples In the first two chapters the bare essentials of elementary point set topology are set forth with some hint of the subject's application to functional analysis

Measure, Topology, and Fractal Geometry Gerald Edgar, 2007-10-23 From reviews of the first edition In the world of mathematics the 1980's might well be described as the decade of the fractal Starting with Benoit Mandelbrot's remarkable text *The Fractal Geometry of Nature* there has been a deluge of books articles and television programmes about the beautiful mathematical objects drawn by computers using recursive or iterative algorithms which Mandelbrot christened fractals Gerald Edgar's book is a significant addition to this deluge Based on a course given to talented high school students at Ohio University in 1988 it is in fact an advanced undergraduate textbook about the mathematics of fractal geometry treating such topics as metric spaces measure theory dimension theory and even some algebraic topology the book also contains many good illustrations of fractals including 16 color plates *Mathematics Teaching* The book can be recommended to students who seriously want to know about the mathematical foundation of fractals and to lecturers who want to illustrate a standard course in metric topology by interesting examples Christoph Bandt *Mathematical Reviews* not only intended to fit mathematics students who wish to learn fractal geometry from its beginning but also students in computer science who are interested in the subject Especially for the last students the author gives the required topics from metric topology and measure theory on an elementary level The book is written in a very clear style and contains a lot of exercises which should be worked out H Haase *Zentralblatt* About the second edition Changes throughout the text taking into account developments in the subject matter since 1990 Major changes in chapter 6 Since 1990 it has become clear that there are two notions of dimension that play complementary roles

so the emphasis on Hausdorff dimension will be replaced by the two Hausdorff dimension and packing dimension 6.1 will remain but a new section on packing dimension will follow it then the old sections 6.2, 6.4 will be re-written to show both types of dimension Substantial change in chapter 7 new examples along with recent developments Sections rewritten to be made clearer and more focused

Topological and Uniform Spaces I.M. James, 2012-12-06 This book is based on lectures I have given to undergraduate and graduate audiences at Oxford and elsewhere over the years My aim has been to provide an outline of both the topological theory and the uniform theory with an emphasis on the relation between the two Although I hope that the prospective specialist may find it useful as an introduction it is the non-specialist I have had more in mind in selecting the contents Thus I have tended to avoid the ingenious examples and counterexamples which often occupy much of the space in books on general topology and I have tried to keep the number of definitions down to the essential minimum There are no particular pre-requisites but I have worked on the assumption that a potential reader will already have had some experience of working with sets and functions and will also be familiar with the basic concepts of algebra and analysis There are a number of fine books on general topology some of which I have listed in the Select Bibliography at the end of this volume Of course I have benefited greatly from this previous work in writing my own account Undoubtedly the strongest influence is that of Bourbaki's *Topologie Generale* 2 the definitive treatment of the subject which first appeared over a generation ago

General Topology J. Dixmier, 2013-06-29 This book is a course in general topology intended for students in the first year of the second cycle in other words students in their third university year The course was taught during the first semester of the 1979-80 academic year three hours a week of lecture four hours a week of guided work Topology is the study of the notions of limit and continuity and thus is in principle very ancient However we shall limit ourselves to the origins of the theory since the nineteenth century One of the sources of topology is the effort to clarify the theory of real valued functions of a real variable uniform continuity uniform convergence equicontinuity Bolzano Weierstrass theorem this work is historically inseparable from the attempts to define with precision what the real numbers are Cauchy was one of the pioneers in this direction but the errors that slip into his work prove how hard it was to isolate the right concepts Cantor came along a bit later his researches into trigonometric series led him to study in detail sets of points of $\mathbb{R}$ whence the concepts of open set and closed set in $\mathbb{R}$ which in his work are intermingled with much subtler concepts The foregoing alone does not justify the very general framework in which this course is set The fact is that the concepts mentioned above have shown themselves to be useful for objects other than the real numbers

Point-Set Topology Rafael López, 2024-05-31 This textbook offers a hands-on introduction to general topology a fundamental tool in mathematics and its applications It provides solid foundations for further study in mathematics in general and topology in particular Aimed at undergraduate students in mathematics with no previous exposure to topology the book presents key concepts in a mathematically rigorous yet accessible manner illustrated by numerous examples The essential feature of the book is the large sets of worked

exercises at the end of each chapter All of the basic topics are covered namely metric spaces continuous maps homeomorphisms connectedness and compactness The book also explains the main constructions of new topological spaces such as product spaces and quotient spaces The final chapter makes a foray into algebraic topology with the introduction of the fundamental group Thanks to nearly 300 solved exercises and abundant examples Point Set Topology is especially suitable for supplementing a first lecture course on topology for undergraduates and it can also be utilized for independent study The only prerequisites for reading the book are familiarity with mathematical proofs some elements of set theory and a good grasp of calculus

Essential Topology Martin D. Crossley, 2011-02-11 This book brings the most important aspects of modern topology within reach of a second year undergraduate student It successfully unites the most exciting aspects of modern topology with those that are most useful for research leaving readers prepared and motivated for further study Written from a thoroughly modern perspective every topic is introduced with an explanation of why it is being studied and a huge number of examples provide further motivation The book is ideal for self study and assumes only a familiarity with the notion of continuity and basic algebra

Beginning Topology Sue E. Goodman, 2005 Beginning Topology is designed to give undergraduate students a broad notion of the scope of topology in areas of point set geometric combinatorial differential and algebraic topology including an introduction to knot theory A primary goal is to expose students to some recent research and to get them actively involved in learning Exercises and open ended projects are placed throughout the text making it adaptable to seminar style classes The book starts with a chapter introducing the basic concepts of point set topology with examples chosen to captivate students imaginations while i

A Guide to the Classification Theorem for Compact Surfaces Jean Gallier, Dianna Xu, 2013-02-05 This welcome boon for students of algebraic topology cuts a much needed central path between other texts whose treatment of the classification theorem for compact surfaces is either too formalized and complex for those without detailed background knowledge or too informal to afford students a comprehensive insight into the subject Its dedicated student centred approach details a near complete proof of this theorem widely admired for its efficacy and formal beauty The authors present the technical tools needed to deploy the method effectively as well as demonstrating their use in a clearly structured worked example Ideal for students whose mastery of algebraic topology may be a work in progress the text introduces key notions such as fundamental groups homology groups and the Euler Poincar characteristic These prerequisites are the subject of detailed appendices that enable focused discrete learning where it is required without interrupting the carefully planned structure of the core exposition Gently guiding readers through the principles theory and applications of the classification theorem the authors aim to foster genuine confidence in its use and in so doing encourage readers to move on to a deeper exploration of the versatile and valuable techniques available in algebraic topology

Undergraduate Topology Aisling McCluskey, Brian McMaster, 2014 This textbook offers an accessible modern introduction at undergraduate level to an area known variously as general topology point set topology or analytic topology

with a particular focus on helping students to build theory for themselves It is the result of several years of the authors combined university teaching experience stimulated by sustained interest in advanced mathematical thinking and learning alongside established research careers in analytic topology Point set topology is a discipline that needs relatively little background knowledge but sufficient determination to grasp ideas precisely and to argue with straight and careful logic Research and long experience in undergraduate mathematics education suggests that an optimal way to learn such a subject is to teach it to yourself pro actively by guided reading of brief skeleton notes and by doing your own spadework to fill in the details and to flesh out the examples This text will facilitate such an approach for those learners who opt to do it this way and for those instructors who would like to encourage this so called Moore approach even for a modest segment of the teaching term or for part of the class In reality most students simply do not have the combination of time background and motivation needed to implement such a plan fully The accessibility flexibility and completeness of this text enable it to be used equally effectively for more conventional instructor led courses Critically it furnishes a rich variety of exercises and examples many of which have specimen solutions through which to gain in confidence and competence *Beginning Topology* Sue Goodman,2005 With a nice balance of mathematical precision and accessibility this text provides a broad introduction to the field of topology Author Sue Goodman piques student curiosity and interest without losing necessary rigor so that they can appreciate the beauty and fun of mathematics The text demonstrates that mathematics is an active and ever changing field with many problems still unsolved and students will see how the various areas of mathematics algebra combinatorics geometry calculus and differential equations interact with topology Students learn some of the major ideas and results in the field do explorations and fairly elementary proofs and become aware of some recent questions By presenting a wide range of topics exercises and examples Goodman creates an interactive and enjoyable atmosphere in which to learn topology

Topology Richard Earl,2019-12-12 How is a subway map different from other maps What makes a knot knotted What makes the M bius strip one sided These are questions of topology the mathematical study of properties preserved by twisting or stretching objects In the 20th century topology became as broad and fundamental as algebra and geometry with important implications for science especially physics In this Very Short Introduction Richard Earl gives a sense of the more visual elements of topology looking at surfaces as well as covering the formal definition of continuity Considering some of the eye opening examples that led mathematicians to recognize a need for studying topology he pays homage to the historical people problems and surprises that have propelled the growth of this field ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Introduction to Topology** Bert Mendelson,2012-04-26 Concise undergraduate introduction to fundamentals of topology clearly and engagingly written and

filled with stimulating imaginative exercises Topics include set theory metric and topological spaces connectedness and compactness 1975 edition Measure, Topology, and Fractal Geometry Gerald A. Edgar, 2013-04-17 From the reviews In the world of mathematics the 1980 s might well be described as the decade of the fractal Starting with Benoit Mandelbrot s remarkable text *The Fractal Geometry of Nature* there has been a deluge of books articles and television programmes about the beautiful mathematical objects drawn by computers using recursive or iterative algorithms which Mandelbrot christened fractals Gerald Edgar s book is a significant addition to this deluge Based on a course given to talented high school students at Ohio University in 1988 it is in fact an advanced undergraduate textbook about the mathematics of fractal geometry treating such topics as metric spaces measure theory dimension theory and even some algebraic topology However the book also contains many good illustrations of fractals including 16 color plates together with Logo programs which were used to generate them Here then at last is an answer to the question on the lips of so many What exactly is a fractal I do not expect many of this book s readers to achieve a mature understanding of this answer to the question but anyone interested in finding out about the mathematics of fractal geometry could not choose a better place to start looking Mathematics Teaching

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