

## BASICS OF TOPOLOGICAL SPACES

S R DOTY

*In these days the angel of topology and the devil of abstract algebra fight for the soul of every individual discipline of mathematics. —Hermann Weyl*

### 1. METRIC SPACES

Topology is the abstract study of continuity. In many situations, one has a way to measure distance between points, and such a metric always leads to a topology. But one can have topology even in situations where a metric is lacking.

**1.1. Definition.** A metric space is a set  $X$  together with a distance function  $d : X \times X \rightarrow \mathbb{R}$ . The distance function enables us to measure distance between two points of  $X$ , and satisfies the properties:

- (1)  $d(x, y) \geq 0$
- (2)  $d(x, y) = 0$  if and only if  $x = y$
- (3)  $d(x, y) = d(y, x)$
- (4)  $d(x, z) \leq d(x, y) + d(y, z)$

for every  $x, y, z \in X$ .

The fourth axiom is known as the *triangle inequality*. Of course, Euclidean space  $\mathbb{R}^n$  is a metric space with distance function given by the familiar distance formula:

$$d(x, y) = |x - y| = \sqrt{(x - y) \cdot (x - y)} = \sqrt{\sum_i (x_i - y_i)^2}$$

where  $x = (x_1, \dots, x_n)$ ,  $y = (y_1, \dots, y_n)$  are any points in  $\mathbb{R}^n$ . The proof that this particular distance function satisfies the triangle inequality is an amusing exercise based on the Schwarz inequality:  $|\langle v, w \rangle| \leq |v| \cdot |w|$  for any  $v, w \in \mathbb{R}^n$ . Using it, we calculate:

$$\begin{aligned} |v + w|^2 &= \langle v + w, v + w \rangle \\ &= \langle v, v \rangle + 2\langle v, w \rangle + \langle w, w \rangle \\ &\leq |v|^2 + 2|v| \cdot |w| + |w|^2 = (|v| + |w|)^2 \end{aligned}$$

whence  $|v + w| \leq |v| + |w|$ . Upon setting  $v = x - y$ ,  $w = y - z$  this gives the triangle inequality. The Schwarz inequality itself is easy to

# Topological Spaces Topological Spaces

**Hidegorô Nakano**



## **Topological Spaces Topological 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

**Topological Spaces** H. J. Kowalsky, 2014-05-12 Topological Spaces focuses on the applications of the theory of topological spaces to the different branches of mathematics The book first offers information on elementary principles topological spaces and compactness and connectedness Discussions focus on locally compact spaces local connectedness fundamental concepts and their reformulations lattice of topologies axioms of separation fundamental concepts of set theory and ordered sets and lattices The manuscript then ponders on mappings and extensions and characterization of topological spaces including completely regular spaces transference of topologies Wallman compactification and embeddings The publication takes a look at metric and uniform spaces and applications of topological groups Topics include the Stone Weierstrass Approximation Theorem extensions and completions of topological groups topological rings and fields extension and completion of uniform spaces uniform continuity and uniform convergence metric spaces and metrization The text is a valuable reference for mathematicians and researchers interested in the study of topological spaces

*Introduction to Metric and Topological Spaces* Wilson Alexander Sutherland, 1975 One of the ways in which topology has influenced other branches of mathematics in the past few decades is by putting the study of continuity and convergence into a general setting This book introduces metric and topological spaces by describing some of that influence The aim is to move gradually from familiar real analysis to abstract topological spaces The book is aimed primarily at the second year mathematics student and numerous exercises are included

**Topology and Linear Topological Spaces** Hidegorō Nakano, 1951 The purpose of this book is to pick up theoretical points in the book of S Banach *Theorie des operations lineaire* and to arrange them by modern method

*Introduction to Metric and Topological Spaces* Wilson A

Sutherland,2009-06-18 This fully updated new edition of Wilson Sutherland's classic text *Introduction to Metric and Topological Spaces* establishes the language of metric and topological spaces with continuity as the motivating concept before developing its discussion to cover compactness connectedness and completeness

**Topology With Applications: Topological Spaces Via Near And Far** Somashekhar A Naimpally,James F Peters,2013-02-21 The principal aim of this book is to introduce topology and its many applications viewed within a framework that includes a consideration of compactness completeness continuity filters function spaces grills clusters and bunches hyperspace topologies initial and final structures metric spaces metrization nets proximal continuity proximity spaces separation axioms and uniform spaces This book provides a complete framework for the study of topology with a variety of applications in science and engineering that include camouflage filters classification digital image processing forgery detection Hausdorff raster spaces image analysis microscopy paleontology pattern recognition population dynamics stem cell biology topological psychology and visual merchandising It is the first complete presentation on topology with applications considered in the context of proximity spaces and the nearness and remoteness of sets of objects A novel feature throughout this book is the use of near and far discovered by F Riesz over 100 years ago In addition it is the first time that this form of topology is presented in the context of a number of new applications

**Linear Topological Spaces** John L. Kelley,Isaac Namioka,1963 *Metric and Topological Spaces* Mr. Rohit Manglik,2024-04-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Topology for Beginners** Steve Warner,2019-04-25 Topology for Beginners consists of a series of basic to intermediate lessons in topology In addition all the proofwriting skills that are essential for advanced study in mathematics are covered and reviewed extensively Topology for Beginners is perfect for professors teaching an undergraduate course or basic graduate course in topology high school teachers working with advanced math students students wishing to see the type of mathematics they would be exposed to as a math major The material in this pure math book includes 16 lessons consisting of basic to intermediate topics in set theory and topology A problem set after each lesson arranged by difficulty level A complete solution guide is included as a downloadable PDF file Topology Book Table Of Contents Selected Here's a selection from the table of contents Introduction Lesson 1 Sets and Subsets Lesson 2 Operations on Sets Lesson 3 Relations Lesson 4 Functions and Equinumerosity Lesson 5 Number Systems and Induction Lesson 6 Algebraic Structures and Completeness Lesson 7 Basic Topology of  $\mathbb{R}$  and  $\mathbb{C}$  Lesson 8 Continuity in  $\mathbb{R}$  and  $\mathbb{C}$  Lesson 9 Topological Spaces Lesson 10 Separation and Countability Lesson 11 Metrizable Spaces Lesson 12 Compactness Lesson 13 Continuity and Homeomorphisms Lesson 14 Connectedness Lesson 15 Function Spaces Lesson 16 Algebraic Topology

*Topological Spaces* Claude Berge,1877 **Invertible Fuzzy Topological Spaces** Anjaly Jose,Sunil C.

Mathew,2022-09-01 This book discusses the invertibility of fuzzy topological spaces and related topics Certain types of fuzzy topological spaces are introduced and interrelations between them are brought forth Various properties of invertible fuzzy topological spaces are presented and characterizations for completely invertible fuzzy topological spaces are discussed The relationship between homogeneity and invertibility is examined and subsequently the orbits in an invertible fuzzy topological space are studied The structure of invertible fuzzy topological spaces is investigated and a clear picture of the inverting pairs in an invertible fuzzy topological space is introduced Further the related spaces such as sums subspaces simple extensions quotient spaces and product spaces of invertible fuzzy topological spaces are examined In addition the effect of invertibility on fuzzy topological properties like separation axioms axioms of countability compactness and fuzzy connectedness in invertible fuzzy topological spaces is established The book sketches ideas extended to the bigger canvas of L topology in a very interesting manner Topology and Linear Topological Spaces Hidegorô Nakano,1983 **A Primer on Hilbert**

**Space Theory** Carlo Alabiso,Ittay Weiss,2021-03-03 This book offers an essential introduction to the theory of Hilbert space a fundamental tool for non relativistic quantum mechanics Linear topological metric and normed spaces are all addressed in detail in a rigorous but reader friendly fashion The rationale for providing an introduction to the theory of Hilbert space rather than a detailed study of Hilbert space theory itself lies in the strenuous mathematics demands that even the simplest physical cases entail Graduate courses in physics rarely offer enough time to cover the theory of Hilbert space and operators as well as distribution theory with sufficient mathematical rigor Accordingly compromises must be found between full rigor and the practical use of the instruments Based on one of the authors s lectures on functional analysis for graduate students in physics the book will equip readers to approach Hilbert space and subsequently rigged Hilbert space with a more practical attitude It also includes a brief introduction to topological groups and to other mathematical structures akin to Hilbert space Exercises and solved problems accompany the main text offering readers opportunities to deepen their understanding The topics and their presentation have been chosen with the goal of quickly yet rigorously and effectively preparing readers for the intricacies of Hilbert space Consequently some topics e g the Lebesgue integral are treated in a somewhat unorthodox manner The book is ideally suited for use in upper undergraduate and lower graduate courses both in Physics and in Mathematics

**Topology and Maps** T. Husain,2012-12-06 This work is suitable for undergraduate students as well as advanced students and research workers It consists of ten chapters the first six of which are meant for beginners and are therefore suitable for undergraduate students Chapters VII X are suitable for advanced students and research workers interested in functional analysis This book has two special features First it contains generalizations of continuous maps on topological spaces e g almost continuous maps nearly continuous maps maps with closed graph graphically continuous maps w continuous maps and a continuous maps etc and some of their properties The treatment of these notions appears here in Chapter VII for the first time in book form The second feature consists in some not so easily available nuptial delights that

grew out of the marriage of topology and functional analysis they are topics mainly courted by functional analysts and seldom given in topology books Specifically one knows that the set  $C(X)$  of all real or complex valued continuous functions on a completely regular space  $X$  forms a locally convex topological algebra a fortiori a topological vector space in the compact open topology A number of theorems are known For example  $C(X)$  is a Banach space iff  $X$  is compact or  $C(X)$  is complete iff  $X$  is a  $k_r$  space and so on Chapters VIII and X include this material which to the regret of many interested readers has not previously been available in book form a recent publication Weir 06 does however contain some material of our Chapter X

Superextensions of Topological Spaces Albert Verbeek, 1972      Young Measures on Topological Spaces Charles Castaing, Paul Raynaud de Fitte, Michel Valadier, 2006-04-11 Young measures are now a widely used tool in the Calculus of Variations in Control Theory in Probability Theory and other fields They are known under different names such as relaxed controls fuzzy random variables and many other names This monograph provides a unified presentation of the theory along with new results and applications in various fields It can serve as a reference on the subject Young measures are presented in a general setting which includes finite and for the first time infinite dimensional spaces the fields of applications of Young measures Control Theory Calculus of Variations Probability Theory are often concerned with problems in infinite dimensional settings The theory of Young measures is now well understood in a finite dimensional setting but open problems remain in the infinite dimensional case We provide several new results in the general frame which are new even in the finite dimensional setting such as characterizations of convergence in measure of Young measures Chapter 3 and compactness criteria Chapter 4 These results are established under a different form and with less details and developments in recent papers by the same authors We also provide new applications to Visintin and Reshetnyak type theorems Chapters 6 and 8 existence of solutions to differential inclusions Chapter 7 dynamical programming Chapter 8 and the Central Limit Theorem in locally convex spaces Chapter 9      Pseudocompact Topological Spaces Michael Hrušák, Ángel Tamariz-Mascarúa, Mikhail Tkachenko, 2018-07-19 This book intended for postgraduate students and researchers presents many results of historical importance on pseudocompact spaces In 1948 E Hewitt introduced the concept of pseudocompactness which generalizes a property of compact subsets of the real line A topological space is pseudocompact if the range of any real valued continuous function defined on the space is a bounded subset of the real line Pseudocompact spaces constitute a natural and fundamental class of objects in General Topology and research into their properties has important repercussions in diverse branches of Mathematics such as Functional Analysis Dynamical Systems Set Theory and Topological Algebraic structures The collection of authors of this volume include pioneers in their fields who have written a comprehensive explanation on this subject In addition the text examines new lines of research that have been at the forefront of mathematics There is as yet no text that systematically compiles and develops the extensive theory of pseudocompact spaces making this book an essential asset for anyone in the field of topology      Topological Spaces Claude Berge, 1985      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 prerequisites 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.

*Algebraic Topology of Finite Topological Spaces and Applications* Jonathan A. Barmak, 2011-08-24 This volume deals with the theory of finite topological spaces and its relationship with the homotopy and simple homotopy theory of polyhedra. The interaction between their intrinsic combinatorial and topological structures makes finite spaces a useful tool for studying problems in Topology, Algebra and Geometry from a new perspective. In particular, the methods developed in this manuscript are used to study Quillen's conjecture on the poset of  $p$  subgroups of a finite group and the Andrews-Curtis conjecture on the 3-deformability of contractible two-dimensional complexes. This self-contained work constitutes the first detailed exposition on the algebraic topology of finite spaces. It is intended for topologists and combinatorialists but it is also recommended for advanced undergraduate students and graduate students with a modest knowledge of Algebraic Topology.

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## **Table of Contents Topological Spaces Topological Spaces**

1. Understanding the eBook Topological Spaces Topological Spaces
  - The Rise of Digital Reading Topological Spaces Topological Spaces
  - Advantages of eBooks Over Traditional Books
2. Identifying Topological Spaces Topological Spaces
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Topological Spaces Topological Spaces
  - User-Friendly Interface

- 
4. Exploring eBook Recommendations from Topological Spaces Topological Spaces
    - Personalized Recommendations
    - Topological Spaces Topological Spaces User Reviews and Ratings
    - Topological Spaces Topological Spaces and Bestseller Lists
  5. Accessing Topological Spaces Topological Spaces Free and Paid eBooks
    - Topological Spaces Topological Spaces Public Domain eBooks
    - Topological Spaces Topological Spaces eBook Subscription Services
    - Topological Spaces Topological Spaces Budget-Friendly Options
  6. Navigating Topological Spaces Topological Spaces eBook Formats
    - ePub, PDF, MOBI, and More
    - Topological Spaces Topological Spaces Compatibility with Devices
    - Topological Spaces Topological Spaces Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Topological Spaces Topological Spaces
    - Highlighting and Note-Taking Topological Spaces Topological Spaces
    - Interactive Elements Topological Spaces Topological Spaces
  8. Staying Engaged with Topological Spaces Topological Spaces
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Topological Spaces Topological Spaces
  9. Balancing eBooks and Physical Books Topological Spaces Topological Spaces
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Topological Spaces Topological Spaces
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Topological Spaces Topological Spaces
    - Setting Reading Goals Topological Spaces Topological Spaces
    - Carving Out Dedicated Reading Time

- 
12. Sourcing Reliable Information of Topological Spaces Topological Spaces
    - Fact-Checking eBook Content of Topological Spaces Topological Spaces
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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