

# EINFACHSTE GRUNDBEGRIFFE DER TOPOLOGIE

VON

PAUL ALEXANDROFF

 Springer

# Einfachste Grundbegriffe Der Topologie

**Ralf Krömer, Emmylou Haffner**



## **Einfachste Grundbegriffe Der Topologie:**

*Einfachste Grundbegriffe der Topologie* Paul Alexandroff, David Hilbert, 2013-03-13 Dieser Buchtitel ist Teil des Digitalisierungsprojekts Springer Book Archives mit Publikationen die seit den Anfängen des Verlags von 1842 erschienen sind Der Verlag stellt mit diesem Archiv Quellen für die historische wie auch die disziplingeschichtliche Forschung zur Verfügung die jeweils im historischen Kontext betrachtet werden müssen Dieser Titel erschien in der Zeit vor 1945 und wird daher in seiner zeittypischen politisch ideologischen Ausrichtung vom Verlag nicht beworben **Topology** K.

Kuratowski, 2014-05-12 Topology Volume I deals with topology and covers topics ranging from operations in logic and set theory to Cartesian products mappings and orderings Cardinal and ordinal numbers are also discussed along with topological metric and complete spaces Great use is made of closure algebra Comprised of three chapters this volume begins with a discussion on general topological spaces as well as their specialized aspects including regular completely regular and normal spaces Fundamental notions such as base subbase cover and continuous mapping are considered together with operations such as the exponential topology and quotient topology The next chapter is devoted to the study of metric spaces starting with more general spaces having the limit as its primitive notion The space is assumed to be metric separable and this includes problems of cardinality and dimension Dimension theory and the theory of Borel sets Baire functions and related topics are also discussed The final chapter is about complete spaces and includes problems of general function theory which can be expressed in topological terms The book includes two appendices one on applications of topology to mathematical logics and another to functional analysis This monograph will be helpful to students and practitioners of algebra and mathematics

**Introduction to Set Theory and Topology** Kazimierz Kuratowski, 2014-07-10 Introduction to Set Theory and Topology describes the fundamental concepts of set theory and topology as well as its applicability to analysis geometry and other branches of mathematics including algebra and probability theory Concepts such as inverse limit lattice ideal filter commutative diagram quotient spaces completely regular spaces quasicomponents and cartesian products of topological spaces are considered This volume consists of 21 chapters organized into two sections and begins with an introduction to set theory with emphasis on the propositional calculus and its application to propositions each having one of two logical values 0 and 1 Operations on sets which are analogous to arithmetic operations are also discussed The chapters that follow focus on the mapping concept the power of a set operations on cardinal numbers order relations and well ordering The section on topology explores metric and topological spaces continuous mappings cartesian products and other spaces such as spaces with a countable base complete spaces compact spaces and connected spaces The concept of dimension simplexes and their properties and cuttings of the plane are also analyzed This book is intended for students and teachers of mathematics

**Fundamentals of Mathematics** Heinrich Behnke, F. Bachmann, K. Fladt, 1974 Volume II of a unique survey of the whole field of pure mathematics *Seifert and Threlfall, A Textbook of Topology*, 1980-07-04 Seifert and Threlfall A Textbook of

Topology      **Topology of Manifolds** Raymond Louis Wilder,1979 This book is a standard in this area of mathematics and is invaluable for historical background      **Introduction to Topology** Pavel Sergeevich Aleksandrov,1956      Elementary Concepts of Topology Paul Alexandroff,2012-08-13 Concise work presents topological concepts in clear elementary fashion from basics of set theoretic topology through topological theorems and questions based on concept of the algebraic complex to the concept of Betti groups Includes 25 figures      **Semiotic Theory and Practice, Volume 1+2** Michael Herzfeld,Lucio Melazzo,2016-07-11 No detailed description available for Semiotic Theory and Practice Volume 1 2      **Foundations of Combinatorial Topology** L. S. Pontryagin,2015-05-20 Concise rigorous introduction to homology theory features applications to dimension theory and fixed point theorems Lucid coverage of the field includes examinations of complexes and their Betti groups invariance of the Betti groups and continuous mappings and fixed points Proofs are presented in a complete and careful manner A beneficial text for a graduate level course this little book is an extremely valuable addition to the literature of algebraic topology *The Mathematical Gazette*      *The Philosophy of Mathematical Practice* Paolo Mancosu,2008-06-19 There is an urgent need in philosophy of mathematics for new approaches which pay closer attention to mathematical practice This book will blaze the trail it offers philosophical analyses of important characteristics of contemporary mathematics and of many aspects of mathematical activity which escape purely formal logical treatment

**Algebraic Topology** Wolfgang Franz,2020-05-18 No detailed description available for Algebraic Topology

*Configurations from a Graphical Viewpoint* Tomaz Pisanski,Brigitte Servatius,2013 Configurations can be studied from a graph theoretical viewpoint via the so called Levi graphs and lie at the heart of graphs groups surfaces and geometries all of which are very active areas of mathematical exploration In this self contained textbook algebraic graph theory is used to introduce groups topological graph theory is used to explore surfaces and geometric graph theory is implemented to analyze incidence geometries After a preview of configurations in Chapter 1 a concise introduction to graph theory is presented in Chapter 2 followed by a geometric introduction to groups in Chapter 3 Maps and surfaces are combinatorially treated in Chapter 4 Chapter 5 introduces the concept of incidence structure through vertex colored graphs and the combinatorial aspects of classical configurations are studied Geometric aspects some historical remarks references and applications of classical configurations appear in the last chapter With over two hundred illustrations challenging exercises at the end of each chapter a comprehensive bibliography and a set of open problems *Configurations from a Graphical Viewpoint* is well suited for a graduate graph theory course an advanced undergraduate seminar or a self contained reference for mathematicians and researchers      *Duality in 19th and 20th Century Mathematical Thinking* Ralf Krömer,Emmylou Haffner,2024-07-01 This volume brings together scholars across various domains of the history and philosophy of mathematics investigating duality as a multi faceted phenomenon Encompassing both systematic analysis and historical examination the book endeavors to elucidate the status roles and dynamics of duality within the realms of 19th and 20th

century mathematics Eschewing a priori notions the contributors embrace the diverse interpretations and manifestations of duality thus presenting a nuanced and comprehensive perspective on this intricate subject Spanning a broad spectrum of mathematical topics and historical periods the book uses detailed case studies to investigate the different forms in which duality appeared and still appears in mathematics to study their respective histories and to analyze interactions between the different forms of duality The chapters inquire into questions such as the contextual occurrences of duality in mathematics the influence of chosen forms of representation the impact of investigations of duality on mathematical practices and the historical interconnections among various instances of duality Together they aim to answer a core question Is there such a thing as duality in mathematics or are there just several things called by the same name and similar in some respect What emerges is that duality can be considered as a basic structure of mathematical thinking thereby opening new horizons for the research on the history and the philosophy of mathematics and the reflection on mathematics in general The volume will appeal not only to experts in the discipline but also to advanced students of mathematics history and philosophy intrigued by the complexities of this captivating subject matter

*Russian Mathematicians in the 20th Century* Yakov Sinai, 2003 In the 20th century many mathematicians in Russia made great contributions to the field of mathematics This invaluable book which presents the main achievements of Russian mathematicians in that century is the first most comprehensive book on Russian mathematicians It has been produced as a gesture of respect and appreciation for those mathematicians and it will serve as a good reference and an inspiration for future mathematicians It presents differences in mathematical styles and focuses on Soviet mathematicians who often discussed what to do rather than how to do it Thus the book will be valued beyond historical documentation The editor Professor Yakov Sinai a distinguished Russian mathematician has taken pains to select leading Russian mathematicians such as Lyapunov Luzin Egorov Kolmogorov Pontryagin Vinogradov Sobolev Petrovski and Krein and their most important works One can for example find works of Lyapunov which parallel those of Poincar and works of Luzin whose analysis plays a very important role in the history of Russian mathematics Kolmogorov has established the foundations of probability based on analysis The editor has tried to provide some parity and at the same time included papers that are of interest even today The original works of the great mathematicians will prove to be enjoyable to readers and useful to the many researchers who are preserving the interest in how mathematics was done in the former Soviet Union

*The Architecture of Modern Mathematics* J. Ferreiros, J. J. Gray, 2006-04-27 This edited volume aimed at both students and researchers in philosophy mathematics and history of science highlights leading developments in the overlapping areas of philosophy and the history of modern mathematics It is a coherent wide ranging account of how a number of topics in the philosophy of mathematics must be reconsidered in the light of the latest historical research and how a number of historical accounts can be deepened by embracing philosophical questions

**Computational Geometry, Topology and Physics of Digital Images with Applications** James F. Peters, 2019-10-03 This book discusses the computational geometry topology

and physics of digital images and video frame sequences This trio of computational approaches encompasses the study of shape complexes optical vortex nerves and proximities embedded in triangulated video frames and single images while computational geometry focuses on the geometric structures that infuse triangulated visual scenes The book first addresses the topology of cellular complexes to provide a basis for an introductory study of the computational topology of visual scenes exploring the fabric shapes and structures typically found in visual scenes The book then examines the inherent geometry and topology of visual scenes and the fine structure of light and light caustics of visual scenes which bring into play catastrophe theory and the appearance of light caustic folds and cusps Following on from this the book introduces optical vortex nerves in triangulated digital images In this context computational physics is synonymous with the study of the fine structure of light choreographed in video frames This choreography appears as a sequence of snapshots of light reflected and refracted from surface shapes providing a solid foundation for detecting analyzing and classifying visual scene shapes

*Einfachste Grundbegriffe Der Topologie. Elementary Concepts of Topology ... Translated by Alan E. Farley* Pavel Sergeevich ALEKSANDROV, Alan E. FARLEY, 1961      **Emmy Noether - Mathematician Extraordinaire** David E. Rowe, 2021-01-09 Although she was famous as the mother of modern algebra Emmy Noether's life and work have never been the subject of an authoritative scientific biography Emmy Noether Mathematician Extraordinaire represents the most comprehensive study of this singularly important mathematician to date Focusing on key turning points it aims to provide an overall interpretation of Noether's intellectual development while offering a new assessment of her role in transforming the mathematics of the twentieth century Hermann Weyl her colleague before both fled to the United States in 1933 fully recognized that Noether's dynamic school was the very heart and soul of the famous Göttingen community Beyond her immediate circle of students Emmy Noether's lectures and seminars drew talented mathematicians from all over the world Four of the most important were B L van der Waerden Pavel Alexandrov Helmut Hasse and Olga Taussky Noether's classic papers on ideal theory inspired van der Waerden to recast his research in algebraic geometry Her lectures on group theory motivated Alexandrov to develop links between point set topology and combinatorial methods Noether's vision for a new approach to algebraic number theory gave Hasse the impetus to pursue a line of research that led to the Brauer Hasse Noether Theorem whereas her abstract style clashed with Taussky's approach to classical class field theory during a difficult time when both were trying to find their footing in a foreign country Although similar to *Proving It Her Way* Emmy Noether a Life in Mathematics this lengthier study addresses mathematically minded readers Thus it presents a detailed analysis of Emmy Noether's work with Hilbert and Klein on mathematical problems connected with Einstein's theory of relativity These efforts culminated with her famous paper *Invariant Variational Problems* published one year before she joined the Göttingen faculty in 1919      **Foundations of Point Set Theory** Robert Lee Moore, 1932-12-31

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