

# Hausdorff compactifications of topological function spaces via the theory of continuous lattices

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## Abstract

It is known from the theory of continuous lattices that if  $X$  is a locally compact Hausdorff space then the set  $LSC(X)$  of lowersemicontinuous functions defined on  $X$  with values on the extended real line admits a unique compact Hausdorff topology making the functional  $(f, g) \mapsto \min\{f, g\}$  continuous, namely the Lawson topology of the continuous lattice  $LSC(X)$ . It is natural to wonder whether the relative topology on the subset  $C(X)$  of continuous functions is the compact-open topology. Unfortunately, it turns out to be strictly weaker. But a related construction does produce a Hausdorff compactification of  $C(X)$ . We show that if  $X$  is a locally compact Hausdorff space and  $Y$  is a Hausdorff topological space which is perfectly embedded into a continuous lattice  $L$  endowed with the Scott topology, then the Lawson topology on the continuous lattice  $LSC(X, L)$  of Scott continuous maps from  $X$  to  $L$  induces the compact-open topology on the space  $C(X, Y)$  of continuous maps from  $X$  to  $Y$ . Thus, by taking the closure of the image of  $C(X, Y)$  in  $LSC(X, L)$ , one gets a Hausdorff compactification of  $C(X, Y)$ . Three particular cases are of interest. (1) If  $Y$  is the Euclidean real line one can take  $L$  as the lattice of compact connected subsets of the two-point compactification of  $Y$  ordered by reverse inclusion. In this case,  $C(X, Y)$  is already dense in  $LSC(X, L)$ . (2) If  $Y$  is a locally compact Hausdorff space, one can take  $L$  as the compact subsets of the one-point compactification of  $Y$ . (3) As a further particular case of (2), if  $X$  and  $Y$  are compact Hausdorff, one concludes that the Vietoris topology on the closed subsets of the cartesian product of  $X$  and  $Y$  induces the compact-open topology on  $C(X, Y)$ , by identifying continuous functions with their closed graphs, using the fact that the Lawson topology coincides with the Vietoris topology.

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# Hausdorff Compactifications

**Tej Bahadur Singh**



## **Hausdorff Compactifications:**

*Hausdorff Compactifications* Richard Edward Chandler, 1976      Hausdorff Compactifications Richard E. Chandler, 1976

On Singular and Other Special Hausdorff Compactifications Robert P. J. André, 1992      **Fundamentals of General**

**Topology** A.V. Arkhangel'skii, V.I. Ponomarev, 2001-11-30      Topological Algebras, 2011-10-10 This book discusses general topological algebras space  $C(T, F)$  of continuous functions mapping  $T$  into  $F$  as an algebra only with pointwise operations and  $C(T, F)$  endowed with compact open topology as a topological algebra  $C(T, F)$  It characterizes the maximal ideals and homomorphisms closed maximal ideals and continuous homomorphisms of topological algebras in general and  $C(T, F)$  in particular A considerable inroad is made into the properties of  $C(T, F)$  as a topological vector space Many of the results about  $C(T, F)$  serve to illustrate and motivate results about general topological algebras Attention is restricted to the algebra  $C(T, \mathbb{R})$  of real valued continuous functions and to the pursuit of the maximal ideals and real valued homomorphisms of such algebras The chapter presents the correlation of algebraic properties of  $C(T, F)$  with purely topological properties of  $T$  The Stone Cech compactification and the Wallman compactification play an important role in characterizing the maximal ideals of certain topological algebras      **Ultrafilters Throughout Mathematics** Isaac Goldbring, 2022-06-13 Ultrafilters and

ultraproducts provide a useful generalization of the ordinary limit processes which have applications to many areas of mathematics Typically this topic is presented to students in specialized courses such as logic functional analysis or geometric group theory In this book the basic facts about ultrafilters and ultraproducts are presented to readers with no prior knowledge of the subject and then these techniques are applied to a wide variety of topics The first part of the book deals solely with ultrafilters and presents applications to voting theory combinatorics and topology while also dealing also with foundational issues The second part presents the classical ultraproduct construction and provides applications to algebra number theory and nonstandard analysis The third part discusses a metric generalization of the ultraproduct construction and gives example applications to geometric group theory and functional analysis The final section returns to more advanced topics of a more foundational nature The book should be of interest to undergraduates graduate students and researchers from all areas of mathematics interested in learning how ultrafilters and ultraproducts can be applied to their specialty

**General Topology** John L. Kelley, 2017-03-07 Comprehensive text for beginning graduate level students and professionals The clarity of the author's thought and the carefulness of his exposition make reading this book a pleasure Bulletin of the American Mathematical Society 1955 edition      General Topology I A.V. Arkhangel'skii, L.S.

Pontryagin, 2012-12-06 This is the first of the encyclopaedia volumes devoted to general topology It has two parts The first outlines the basic concepts and constructions of general topology including several topics which have not previously been covered in English language texts The second part presents a survey of dimension theory from the very beginnings to the most important recent developments The principal ideas and methods are treated in detail and the main results are provided

with sketches of proofs The authors have succeeded admirably in the difficult task of writing a book which will not only be accessible to the general scientist and the undergraduate but will also appeal to the professional mathematician The authors efforts to detail the relationship between more specialized topics and the central themes of topology give the book a broad scholarly appeal which far transcends narrow disciplinary lines

**Encyclopedia of General Topology** K.P. Hart, Jun-iti Nagata, J.E. Vaughan, 2003-11-18 This book is designed for the reader who wants to get a general view of the terminology of General Topology with minimal time and effort The reader whom we assume to have only a rudimentary knowledge of set theory algebra and analysis will be able to find what they want if they will properly use the index However this book contains very few proofs and the reader who wants to study more systematically will find sufficiently many references in the book Key features More terms from General Topology than any other book ever published Short and informative articles Authors include the majority of top researchers in the field Extensive indexing of terms

Proximity Approach to Problems in Topology and Analysis Somashekhar Naimpally, 2010-10-01 Dieses Buch konzentriert das aktuelle Gesamtwissen zum Proximity Konzept und stellt es dem Leser in gut strukturierter Form dar Hauptaugenmerk liegt auf den vielfältigen Möglichkeiten die sich aus dem Proximity Konzept der räumlichen Nähe und seiner Verallgemeinerung im Nearness Konzept ergeben

Compactifications of Symmetric and Locally Symmetric Spaces Armand Borel, Lizhen Ji, 2006-07-25 Noncompact symmetric and locally symmetric spaces naturally appear in many mathematical theories including analysis representation theory nonabelian harmonic analysis number theory automorphic forms algebraic geometry modular and algebraic topology cohomology of discrete groups In most applications it is necessary to form an appropriate compactification of the space The literature dealing with such compactifications is vast The main purpose of this book is to introduce uniform constructions of most of the known compactifications with emphasis on their geometric and topological structures The book is divided into three parts Part I studies compactifications of Riemannian symmetric spaces and their arithmetic quotients Part II is a study of compact smooth manifolds Part III studies the compactification of locally symmetric spaces Familiarity with the theory of semisimple Lie groups is assumed as is familiarity with algebraic groups defined over the rational numbers in later parts of the book although most of the pertinent material is recalled as presented Otherwise the book is a self contained reference aimed at graduate students and research mathematicians interested in the applications of Lie theory and representation theory to diverse fields of mathematics

**Introduction to Differential and Algebraic Topology** Yu.G. Borisovich, N.M. Bliznyakov, T.N. Fomenko, Y.A. Izrailevich, 2013-03-09 Topology as a subject in our opinion plays a central role in university education It is not really possible to design courses in differential geometry mathematical analysis differential equations mechanics functional analysis that correspond to the temporary state of these disciplines without involving topological concepts Therefore it is essential to acquaint students with topological research methods already in the first university courses This textbook is one possible version of an introductory course in topology and elements of differential geometry and

it absolutely reflects both the authors personal preferences and experience as lecturers and researchers It deals with those areas of topology and geometry that are most closely related to fundamental courses in general mathematics The educational material leaves a lecturer a free choice in designing his own course or his own seminar We draw attention to a number of particularities in our book The first chapter according to the authors intention should acquaint readers with topological problems and concepts which arise from problems in geometry analysis and physics Here general topology Ch 2 is presented by introducing constructions for example related to the concept of quotient spaces much earlier than various other notions of general topology thus making it possible for students to study important examples of manifolds two dimensional surfaces projective spaces orbit spaces etc as topological spaces immediately

*Encyclopaedia of Mathematics* Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Categorical Topology Eraldo Giuli, 1996-06-30 This volume contains selected papers presented at the International Workshop on Categorical Topology held at the University of L'Aquila L'Aquila Italy from August 31 to September 4 1994 The collection should be of interest to mathematicians whose work involves category theory

*Encyclopaedia of Mathematics* M. Hazewinkel, 2013-12-01

**Infinite Homotopy Theory** H-J. Baues, A. Quintero, 2001-06-30 This book deals with algebraic topology homotopy theory and simple homotopy theory of infinite CW complexes with ends Contrary to most other works on these subjects the current volume does not use inverse systems to treat these topics Here the homotopy theory is approached without the rather sophisticated notion of pro category Spaces with ends are studied only by using appropriate constructions such as spherical objects of CW complexes in the category of spaces with ends and all arguments refer directly to this category In this way infinite homotopy theory is presented as a natural extension of classical homotopy theory In particular this book introduces the construction of the proper groupoid of a

space with ends and then the cohomology with local coefficients is defined by the enveloping ringoid of the proper fundamental groupoid This volume will be of interest to researchers whose work involves algebraic topology category theory homological algebra general topology manifolds and cell complexes     Moduli of K-stable Varieties Giulio Codogni,Ruadhaí Dervan,Filippo Viviani,2019-06-27 This volume is an outcome of the workshop Moduli of K stable Varieties which was held in Rome Italy in 2017 The content focuses on the existence problem for canonical K hler metrics and links to the algebro geometric notion of K stability The book includes both surveys on this problem notably in the case of Fano varieties and original contributions addressing this and related problems The papers in the latter group develop the theory of K stability explore canonical metrics in the K hler and almost K hler settings offer new insights into the geometric significance of K stability and develop tropical aspects of the moduli space of curves the singularity theory necessary for higher dimensional moduli theory and the existence of minimal models Reflecting the advances made in the area in recent years the survey articles provide an essential overview of many of the most important findings The book is intended for all advanced graduate students and researchers who want to learn about recent developments in the theory of moduli space K stability and K hler Einstein metrics     Real Analysis Gerald B. Folland,2013-06-11 An in depth look at real analysis and its applications now expanded and revised This new edition of the widely used analysis book continues to cover real analysis in greater detail and at a more advanced level than most books on the subject Encompassing several subjects that underlie much of modern analysis the book focuses on measure and integration theory point set topology and the basics of functional analysis It illustrates the use of the general theories and introduces readers to other branches of analysis such as Fourier analysis distribution theory and probability theory This edition is bolstered in content as well as in scope extending its usefulness to students outside of pure analysis as well as those interested in dynamical systems The numerous exercises extensive bibliography and review chapter on sets and metric spaces make Real Analysis Modern Techniques and Their Applications Second Edition invaluable for students in graduate level analysis courses New features include Revised material on the n dimensional Lebesgue integral An improved proof of Tychonoff s theorem Expanded material on Fourier analysis A newly written chapter devoted to distributions and differential equations Updated material on Hausdorff dimension and fractal dimension     Elements of Topology Tej Bahadur Singh,2013-05-20 Topology is a large subject with many branches broadly categorized as algebraic topology point set topology and geometric topology Point set topology is the main language for a broad variety of mathematical disciplines Algebraic topology serves as a powerful tool for studying the problems in geometry and numerous other areas of mathematics Ele     **Analysis Now** Gert K. Pedersen,2012-12-06 Graduate students in mathematics who want to travel light will find this book invaluable impatient young researchers in other fields will enjoy it as an instant reference to the highlights of modern analysis Starting with general topology it moves on to normed and seminormed linear spaces From there it gives an introduction to the general theory of operators on Hilbert space followed by

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