SOME REMARKS ON QUASI-UNIFORM SPACES

by HANS-PETER A. KÜNZI

Introduction. A topological space is called a *uqu space* [10] if it admits a unique quasi-uniformity. Answering a question [2, Problem B, p. 45] of P. Fletcher and W. F. Lindgren in the affirmative we show in [8] that a topological space X is a *uqu* space if and only if every interior-preserving open collection of X is finite. (Recall that a collection $\mathscr{C}$ of open sets of a topological space is called *interior-preserving* if the intersection of an arbitrary subcollection of $\mathscr{C}$ is open (see e.g. [2, p. 29]).) The main step in the proof of this result in [8] shows that a topological space in which each interior-preserving open collection is finite is a transitive space. (A topological space is called *transitive* (see e.g. [2, p. 130]) if its fine quasi-uniformity has a base consisting of transitive entourages.) In the first section of this note we prove that each hereditarily compact space is transitive. The result of [8] mentioned above is an immediate consequence of this fact, because, obviously, a topological space in which each interior-preserving open collection is finite is hereditarily compact; see e.g. [2, Theorem 2.36]. Our method of proof also shows that a space is transitive if its fine quasi-uniformity is quasi-pseudo-metrizable. We use this result to prove that the fine quasi-uniformity of a T_1 space X is quasi-metrizable if and only if X is a quasi-metrizable space containing only finitely many nonisolated points. This result should be compared with Proposition 2.34 of [2], which says that the fine quasi-uniformity of a *regular* T_1 space has a countable base if and only if it is a *metrizable* space with only finitely many nonisolated points (see e.g. [11] for related results on uniformities). Another by-product of our investigations is the result that each topological space with a countable network is transitive.

Recently there has been some interest in the construction of *uqu* spaces (compare [4]). In this connection our observation that the product of finitely many *uqu* spaces is a *uqu* space may be useful. We prove this result in the second section of this note. Topological spaces admitting a unique quasi-proximity are called *uqp spaces* in [10]. Each hereditarily compact space is a *uqp* space [10, Theorem 2.4]. Answering a question [2, Problem B, p. 45] of P. Fletcher and W. F. Lindgren in the negative, we show in [6] that a (first-countable) *uqp* space need not be hereditarily compact. In fact, it is proved in [9, Proposition 4] that a *uqp* space X is hereditarily compact if and only if each ultrafilter on X has an irreducible convergence set. (Recall that a nonempty subset A of a topological space is called *irreducible* (see e.g. [9, p. 238]) if each pair of nonempty A-open subsets has a nonempty intersection.) In particular each *uqp* Hausdorff space is hereditarily compact (and, thus, finite) [2, Theorem 2.36]. It seems to be unknown whether the *uqp* T_1 spaces can be characterized in a similar way. The last result contained in this paper shows that, at least, each *uqp* T_1 space with *countable pseudo-character* is hereditarily compact (and, thus, countable). (Recall that a topological space X has *countable pseudo-character* if each point of X is a G_δ-set in X.)

Quasi Uniform Spaces

M. G. Murdeshwar,S. A. Naimpally

Quasi Uniform Spaces:

   Quasi-Uniform SPates Fletcher,2018-04-27 Since quasi uniform spaces were defined in 1948 a diverse and widely dispersed literatureconcerning them has emerged In Quasi Uniform Spaces the authors present a comprehensivestudy of these structures together with the theory of quasi proximities In additionto new results unavailable elsewhere the volume unites fundamental materialheretofore scattered throughout the literature Quasi Uniform Spaces shows by example that these structures provide a natural approachto the study of point set topology It is the only source for many results related to completeness and a primary source for the study of both transitive and quasi metric spaces Included are H Junnila s analogue of Tamano s theorem J Kofner s result showing thatevery GO space is transitive and R Fox s example of a non quasi metrizable r space Inaddition to numerous interesting problems mentioned throughout the text 22 formalresearch problems are featured The book nurtures a radically different viewpoint oftopology leading to new insights into purely topological problems Since every topological space admits a quasi uniformity the study of quasi uniformspaces can be seen as no less general than the study of topological spaces For such study Quasi Uniform Spaces is a necessary self contained reference for both researchers andgraduate students of general topology Information is made particularly accessible withthe inclusion of an extensive index and bibliography   *Quasi-uniform Spaces* p;lindgren fletcher (wf),1982   Some Results on Quasi-uniform Spaces Karen Sylvia Carter,1973   *The Scale of a Quasi-Uniform Space* Olivier Olela Otafudu,2010-12 We continue our investigations of the scale of a quasi uniform space which we had started in an earlier article We distinguish between the left sided scale and the two sided scale of a quasi uniform space While the behavior of the two sided scale of a quasi uniform space X shows similarities with the usual hyperspace of X equipped with its Hausdorff quasi uniformity the left handed scale generalizes the quasi uniform multifunction space of X into itself For instance the two sided scale of any totally bounded quasi uniform space X is totally bounded while total boundedness of the left sided scale of a quasi uniform space X implies that X is finite or indiscrete Either construction of the scale is based on the idea of the prefilter space of a quasi uniform space Prefilter spaces of quasi uniform spaces are shown to be bicomplete It follows that both the left sided and the two sided scale of a quasi uniform space are bicomplete Indeed these scales can be used to construct the bicompletion of the T0 reflection of the Hausdorff quasi uniformity of a quasi uniform space   **Transitive Quasi-uniform Spaces** Michael Norman Halpin,1974   Quasi-uniform Topological Spaces M. G. Murdeshwar,S. A. Naimpally,1966   **Uniformization of Quasi-uniform Spaces** Ivan L. Reilly,1977   Local Properties of Transitive Quasi-uniform Spaces Massood Seyedin,1972

   Functional Analysis in Asymmetric Normed Spaces Stefan Cobzas,2012-10-30 An asymmetric norm is a positive definite sublinear functional p on a real vector space X The topology generated by the asymmetric norm p is translation invariant so that the addition is continuous but the asymmetry of the norm implies that the multiplication by scalars is continuous only when restricted to non negative entries in the first argument The asymmetric dual of X meaning the set of all real valued

upper semi continuous linear functionals on X is merely a convex cone in the vector space of all linear functionals on X In spite of these differences many results from classical functional analysis have their counterparts in the asymmetric case by taking care of the interplay between the asymmetric norm p and its conjugate Among the positive results one can mention Hahn Banach type theorems and separation results for convex sets Krein Milman type theorems analogs of the fundamental principles open mapping closed graph and uniform boundedness theorems an analog of the Schauder s theorem on the compactness of the conjugate mapping Applications are given to best approximation problems and as relevant examples one considers normed lattices equipped with asymmetric norms and spaces of semi Lipschitz functions on quasi metric spaces Since the basic topological tools come from quasi metric spaces and quasi uniform spaces the first chapter of the book contains a detailed presentation of some basic results from the theory of these spaces The focus is on results which are most used in functional analysis completeness compactness and Baire category which drastically differ from those in metric or uniform spaces The book is fairly self contained the prerequisites being the acquaintance with the basic results in topology and functional analysis so it may be used for an introduction to the subject Since new results in the focus of current research are also included researchers in the area can use it as a reference text **Dense Subspaces of Quasi-uniform Spaces** Adrian Lüthy,1991 **Beyond Topology** Fr□d□ric Mynard,Elliott Pearl,2009-05-15 The purpose of this collection is to guide the non specialist through the basic theory of various generalizations of topology starting with clear motivations for their introduction Structures considered include closure spaces convergence spaces proximity spaces quasi uniform spaces merotopic spaces nearness and filter spaces semi uniform convergence spaces and approach spaces Each chapter is self contained and accessible to the graduate student and focuses on motivations to introduce the generalization of topologies considered presenting examples where desirable properties are not present in the realm of topologies and the problem is remedied in the more general context Then enough material will be covered to prepare the reader for more advanced papers on the topic While category theory is not the focus of the book it is a convenient language to study these structures and while kept as a tool rather than an object of study will be used throughout the book For this reason the book contains an introductory chapter on categorical topology Topology and Its Applications Sergeĭ Petrovich Novikov,1993 Translated from the 1992 Russian edition Proceedings of a conference held in Zagulba near Baku in October 1987 Papers discuss flows on surfaces topological characteristics of infinite dimensional mappings and the solvability of nonlinear boundary value problems combinatorics of a partial fraction decomposition the theory of spaces of continuous functions and spectral asymptotics of the Laplacian on a fundamental domain in three dimensional hyperbolic space No index Annotation copyright by Book News Inc Portland OR **Recent Progress in General Topology II** M. Husek,J. van Mill,2002-11-13 The book presents surveys describing recent developments in most of the primary subfields of General Topology and its applications to Algebra and Analysis during the last decade It follows freely the previous edition North Holland 1992 Open Problems in

Topology North Holland 1990 and Handbook of Set Theoretic Topology North Holland 1984 The book was prepared in connection with the Prague Topological Symposium held in 2001 During the last 10 years the focus in General Topology changed and therefore the selection of topics differs slightly from those chosen in 1992 The following areas experienced significant developments Topological Groups Function Spaces Dimension Theory Hyperspaces Selections Geometric Topology including Infinite Dimensional Topology and the Geometry of Banach Spaces Of course not every important topic could be included in this book Except surveys the book contains several historical essays written by such eminent topologists as R D Anderson W W Comfort M Henriksen S Marde i J Nagata M E Rudin J M Smirnov several reminiscences of L Vietoris are added In addition to extensive author and subject indexes a list of all problems and questions posed in this book are added List of all authors of surveys A Arhangel skii J Baker and K Kunen H Bennett and D Lutzer J Dijkstra and J van Mill A Dow E Glasner G Godefroy G Gruenhage N Hindman and D Strauss L Hola and J Pelant K Kawamura H P Kuenzi W Marciszewski K Martin and M Mislove and M Reed R Pol and H Torunczyk D Repovs and P Semenov D Shakhmatov S Solecki M Tkachenko *Canadian Mathematical Bulletin* ,1976-03 *Handbook of the History of General Topology* C.E. Aull,R. Lowen,2013-04-18 This book is the first one of a work in several volumes treating the history of the development of topology The work contains papers which can be classified into 4 main areas Thus there are contributions dealing with the life and work of individual topologists with specific schools of topology with research in topology in various countries and with the development of topology in different periods The work is not restricted to topology in the strictest sense but also deals with applications and generalisations in a broad sense Thus it also treats e g categorical topology interactions with functional analysis convergence spaces and uniform spaces Written by specialists in the field it contains a wealth of information which is not available anywhere else Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics 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 subdivi sion 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 en gineers 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   Library of Congress Subject Headings Library of Congress,2004   **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2009   **Canadian Mathematical Bulletin** ,1978-03   **Scientia Magna, Vol. 9, No. 1, 2013** Zhang Wenpeng, Papers on Smarandache cyclic determinant natural sequence Smarandache cyclic arithmetic determinant sequence Smarandache bisymmetric determinant natural sequence Smarandache bisymmetric arithmetic determinant sequence ordered intuitionistic fuzzy smooth quasi uniform disconnected spaces computing the number of integral points in 4 dimensional ball open problems on the connected bicritical graphs right circulant matrices with Perrin sequence semi normed space defined by entire rate sequences and similar topics Contributors G Thangaraj S Anjalmose B S Mehrok G Singh N Subramanian A Cesar F Bueno A Al Omari S Modak N Selvanayaki G Ilango and others

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Table of Contents Quasi Uniform Spaces

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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