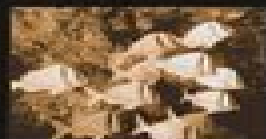


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J.M. Aarts, T. Nishiura



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Headings Library of Congress. Cataloging Policy and Support Office, 2009 **Dimension and Extensions** J.M. Aarts, T. Nishiura, 1993-01-28 Two types of seemingly unrelated extension problems are discussed in this book Their common focus is a long standing problem of Johannes de Groot the main conjecture of which was recently resolved As is true of many important conjectures a wide range of mathematical investigations had developed which have been grouped into the two extension problems The first concerns the extending of spaces the second concerns extending the theory of dimension by replacing the empty space with other spaces The problem of de Groot concerned compactifications of spaces by means of an adjunction of a set of minimal dimension This minimal dimension was called the compactness deficiency of a space Early success in 1942 lead de Groot to invent a generalization of the dimension function called the compactness degree of a space with the hope that this function would internally characterize the compactness deficiency which is a topological invariant of a space that is externally defined by means of compact extensions of a space From this the two extension problems were spawned With the classical dimension theory as a model the inductive covering and basic aspects of the dimension functions are investigated in this volume resulting in extensions of the sum subspace and decomposition theorems and theorems about mappings into spheres Presented are examples counterexamples open problems and solutions of the original and modified

compactification problems *Library of Congress Subject Headings* Library of Congress. Subject Cataloging Division, 1988

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Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 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

Structure of Arbitrary Purely Inseparable Extensions J. N. Mordeson, B. Vinograd, 2006-11-15 Starting with O Teichmüller's basic concepts G Pickert developed an extensive theory of purely inseparable extensions especially the finite degree case In these notes are presented an infinite degree theory especially for the case without exponent

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Lipschitz Functions Ștefan Cobzaș, Radu Miculescu, Adriana Nicolae, 2019-05-23 The aim of this book is to present various facets of the theory and applications of Lipschitz functions starting with classical and culminating with some recent results Among the included topics we mention characterizations of Lipschitz functions and relations with other classes of functions extension results for Lipschitz functions and Lipschitz partitions of unity Lipschitz free Banach spaces and their applications compactness properties of Lipschitz operators Bishop Phelps type results for Lipschitz functionals applications to best approximation in metric and in metric linear spaces Kantorovich Rubinstein norm and applications to duality in the optimal transport problem Lipschitz mappings on geodesic spaces The prerequisites are basic results in real analysis functional analysis measure theory including vector measures and topology which for reader's convenience are surveyed in the first chapter of the book

Bornologies and Lipschitz Analysis Gerald Beer, 2023-05-15 This monograph for the first time in book form considers the large structure of metric spaces as captured by bornologies families of subsets that contain the singletons that are stable under finite unions and that are stable under taking subsets of its members The largest bornology is the power set of the space and the smallest is the bornology of its finite subsets Between these lie among others the metrically bounded subsets the relatively compact subsets the totally bounded subsets and the Bourbaki bounded subsets Classes of functions are intimately connected to various bornologies e.g. 1 a function is locally Lipschitz if and only if its restriction to each relatively compact subset is Lipschitz 2 a subset is Bourbaki bounded if and only if each uniformly continuous function on the space is bounded when restricted to the subset A great deal of attention is given to the variational notions of strong uniform continuity and strong uniform convergence with respect to the members of a bornology leading to the bornology of UC subsets and UC spaces Spaces on which its uniformly continuous real valued functions are stable under pointwise product are characterized in terms of the coincidence of the Bourbaki bounded subsets with a usually larger bornology Special

attention is given to Lipschitz and locally Lipschitz functions For example uniformly dense subclasses of locally Lipschitz functions within the real valued continuous functions Cauchy continuous functions and uniformly continuous functions are presented It is shown very generally that a function between metric spaces has a particular metric property if and only if whenever it is followed in a composition by a real valued Lipschitz function the composition has the property Bornological convergence of nets of closed subsets having Attouch Wets convergence as a prototype is considered in detail Topologies of uniform convergence for continuous linear operators between normed spaces is explained in terms of the bornological convergence of their graphs Finally the idea of a bornological extension of a topological space is presented and all regular extensions can be so realized

Introduction to Cyclotomic Fields Lawrence C. Washington, 2012-12-06 Introduction to Cyclotomic Fields is a carefully written exposition of a central area of number theory that can be used as a second course in algebraic number theory Starting at an elementary level the volume covers p adic L functions class numbers cyclotomic units Fermat's Last Theorem and Iwasawa's theory of \mathbb{Z}_p extensions leading the reader to an understanding of modern research literature Many exercises are included The second edition includes a new chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture There is also a chapter giving other recent developments including primality testing via Jacobi sums and Sinnott's proof of the vanishing of Iwasawa's f invariant

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