Applications of Model Theory to Functional Analysis



<u>Applications Of Model Theory To Functional Analysis</u> <u>Jose Iovino</u>

C. Ward Henson

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that are not available elsewhere All the articles are written so that they can be studied independently of one another This second volume contains introductions to real valued logic and applications abstract elementary classes and applications interconnections between model theory and function spaces nonstructure theory and model theory of second order logic Features A coherent introduction to current trends in model theory Contains articles by some of the most influential logicians of the last hundred years No other publication brings these distinguished authors together Suitable as a reference for advanced undergraduate postgraduates and researchers Material presented in the book e.g. abstract elementary classes first order logics with dependent sorts and applications of infinitary logics in set theory is not easily accessible in the current literature The various chapters in the book can be studied independently <u>Ultrafilters Throughout Mathematics</u> 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 Analysis and Logic C. Ward Henson, 2002 This volume comprises articles from four can be applied to their specialty outstanding researchers who work at the cusp of analysis and logic The emphasis is on active research topics many results are presented that have not been published before and open problems are formulated Considerable effort has been made by the authors to integrate their articles and make them accessible to mathematicians new to the area Categoricity John T. Baldwin, 2009 Modern model theory began with Morley's categoricity theorem A countable first order theory that has a unique up to isomorphism model in one uncountable cardinal i e is categorical in cardinality if and only if the same holds in all uncountable cardinals Over the last 35 years Shelah made great strides in extending this result to infinitary logic where the basic tool of compactness fails He invented the notion of an Abstract Elementary Class to give a unifying semantic account of theories in first order infinitary logic and with some generalized quantifiers Zilber developed similar techniques of infinitary model theory to study complex exponentiation This book provides the first unified and systematic exposition of this work The many examples stretch from pure model theory to module theory and covers of Abelian varieties Assuming only a first course in model theory the book expounds eventual categoricity results for classes with amalgamation and categoricity

in excellent classes Such crucial tools as Ehrenfeucht Mostowski models Galois types tameness omitting types theorems multi dimensional amalgamation atomic types good sets weak diamonds and excellent classes are developed completely and methodically The occasional reliance on extensions of basic set theory is clearly laid out The book concludes with a set of open problems

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