

Perspectives in Mathematical Logic

**John T. Baldwin**

# **Fundamentals of Stability Theory**



Springer-Verlag

# Fundamentals Of Stability Theory Perspectives In Mathematical Logic Ser

**A Gutmann**



## **Fundamentals Of Stability Theory Perspectives In Mathematical Logic Ser:**

**Fundamentals of Stability Theory** John T. Baldwin, 1987-12-23 This new volume of the series is written as an introduction to first order stability theory. It is organized around the spectrum problem: calculate the number of models of a first order theory  $T$  in each uncountable cardinal. To solve this problem a generalization of the notion of algebraic independence, nonforking, was developed. In this text the abstract properties of this relation in contrast to other books which begin with the technical description. The important notions of orthogonality and regularity are carefully developed; this machinery is then applied to the spectrum problem. Complete proofs of the Vaught conjecture for  $\omega$ -stable theories are presented here for the first time in book form. Considerable effort has been made by the author to provide much needed examples. In particular the book contains the first publication of Shelah's infamous example showing the necessity of his methods to solve Vaught's conjecture for  $\omega$ -stable theories. The connections of abstract stability theory with algebra, particularly with the theory of modules, are emphasized. Model Theoretic Methods in Finite Combinatorics Martin

Grohe, Johann A. Makowsky, 2011-11-28 This volume contains the proceedings of the AMS ASL Special Session on Model Theoretic Methods in Finite Combinatorics held January 5-8, 2009 in Washington DC. Over the last 20 years various new connections between model theory and finite combinatorics emerged. The best known of these are in the area of 0-1 laws, but in recent years other very promising interactions between model theory and combinatorics have been developed in areas such as extremal combinatorics and graph limits. Graph polynomials, homomorphism functions, and related counting functions and discrete algorithms touching the boundaries of computer science and statistical physics. This volume highlights some of the main results, techniques, and research directions of the area. Topics covered in this volume include recent developments on 0-1 laws and their variations, counting functions defined by homomorphisms and graph polynomials, and their relation to logic, recurrences, and spectra; the logical complexity of graphs; algorithmic meta-theorems based on logic, universal and homogeneous structures, and logical aspects of Ramsey theory. **Classification and Orbit Equivalence Relations** Greg

Hjorth, 2000 Actions of Polish groups are ubiquitous in mathematics. In certain branches of ergodic theory and functional analysis one finds a systematic study of the group of measure preserving transformations and the unitary group. In logic the analysis of countable models intertwines with results concerning the actions of the infinite symmetric group. This text develops the theory of Polish group actions entirely from scratch, ultimately presenting a coherent theory of the resulting orbit equivalence classes that may allow complete classification by invariants of an indicated form. The book concludes with a criterion for an orbit equivalence relation classifiable by countable structures considered up to isomorphism. This self-contained volume offers a complete treatment of this active area of current research and develops a difficult general theory classifying a class of mathematical objects up to some relevant notion of isomorphism or equivalence. *Subject Guide to Books in Print*, 2001 **Books in Print Supplement**, 1994 Essential Stability Theory Steven Buechler, 2017-03-02

Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again Stability theory was introduced and matured in the 1960s and 1970s Today stability theory influences and is influenced by number theory algebraic group theory Riemann surfaces and representation theory of modules There is little model theory today that does not involve the methods of stability theory In this volume the fourth publication in the Perspectives in Logic series Steven Buechler bridges the gap between a first year graduate logic course and research papers in stability theory The book prepares the student for research in any of today s branches of stability theory and gives an introduction to

classification theory with an exposition of Morley s Categoricity Theorem **Scientific and Technical Books and Serials in Print** ,1989 **The American Mathematical Monthly** ,1991 Mathematical Reviews ,2003 **Library**

**Recommendations for Undergraduate Mathematics** Lynn Arthur Steen,1992 *Forthcoming Books* Rose Arny,2003-04

*Towards Intelligent Engineering and Information Technology* Imre J. Rudas,János Fodor,2009-09-30 Intelligent engineering systems try to replicate fundamental abilities of humans and nature in order to achieve sufficient progress in solving complex problems In an ideal case multi disciplinary applications of different modern engineering fields can result in synergistic effects Information technology and computer modeling are the underlying tools that play a major role at any stages of developing intelligent systems Chapters in the present volume have been written by eminent scientists from different parts of the world dealing with challenging problems for efficient modeling of intelligent systems The reader can find different characteristics and methodologies of computational intelligence with real life applications Various facets of intelligent engineering and information technology are addressed Starting with theoretical issues from pseudo analysis to parametric classes of digital fuzzy conjunctions for hardware implementation of fuzzy systems diverse aspects of control including quantum as well as fuzzy control and hybrid approaches intelligent robotics dealing with mobile and autonomous robots and new trends approaches and results on information technology machines materials and manufacturing and issues of intelligent systems and complex processes are covered Scientific and Technical Books in Print ,1972 Börsenblatt für den deutschen Buchhandel ,1988 *Stanford University Bulletin* Stanford University,1998 **Books in Series** ,1979

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