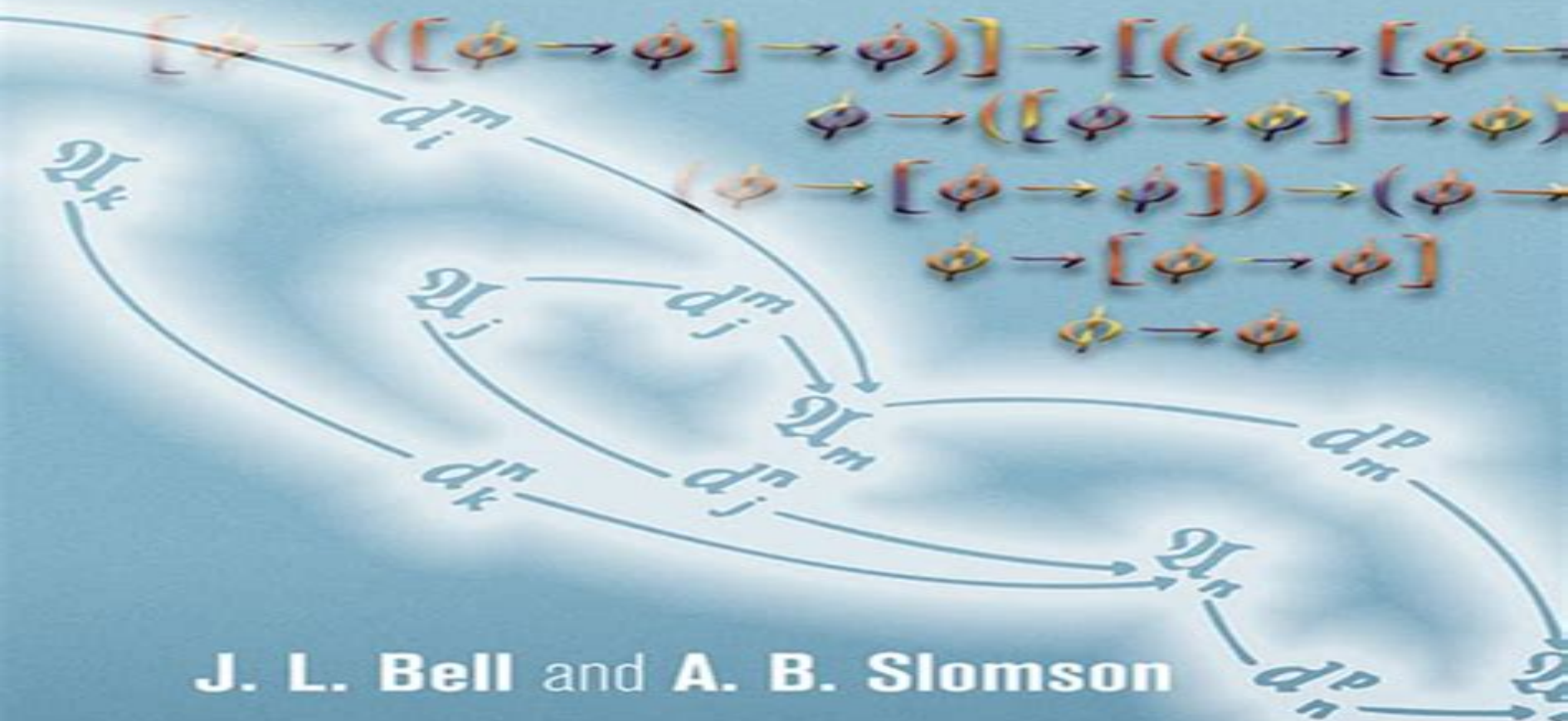


Models and Ultraproducts

AN INTRODUCTION



Models And Ultraproducts

George Weaver



Models And Ultraproducts:

Models and Ultraproducts John Lane Bell, A. B. Slomson, 2006-01-01 In this text for first year graduate students the authors provide an elementary exposition of some of the basic concepts of model theory focusing particularly on the ultraproduct construction and the areas in which it is most useful The book which assumes only that its readers are acquainted with the rudiments of set theory starts by developing the notions of Boolean algebra propositional calculus and predicate calculus Model theory proper begins in the fourth chapter followed by an introduction to ultraproduct construction which includes a detailed look at its theoretic properties An overview of elementary equivalence provides algebraic descriptions of the elementary classes Discussions of completeness follow along with surveys of the work of Jonsson and of Morley and Vaught on homogeneous universal models and the results of Keisler in connection with the notion of a saturated structure Additional topics include classical results of Gödel and Skolem and extensions of classical first order logic in terms of generalized quantifiers and infinitary languages Numerous exercises appear throughout the text

Models and Ultraproducts John Lane Bell, A. B. Slomson, 1971 The aim of this book is to provide an elementary exposition of some of the basic concepts of model theory Model theory which can be described briefly as the study of the relationship between formal languages and abstract structures covers a very wide field and it is not possible to compress it into one volume We have chosen as our theme the ultraproducts construction We hope this book will be of use to undergraduate and practicing mathematicians

Models and Ultraproducts John Lane Bell, 1971 Henkin-Keisler Models George Weaver, 2007-07-23 Henkin Keisler models emanate from a modification of the Henkin construction introduced by Keisler to motivate the definition of ultraproducts Keisler modified the Henkin construction at that point at which new individual constants are introduced and did so in a way that illuminates a connection between Henkin Keisler models and ultraproducts The resulting construction can be viewed both as a specialization of the Henkin construction and as an alternative to the ultraproduct construction These aspects of the Henkin Keisler construction are utilized here to present a perspective on ultraproducts and their applications accessible to the reader familiar with Henkin's proof of the completeness of first order logic and naive set theory This approach culminates in proofs of various forms of the Keisler Shelah characterizations of elementary equivalence and elementary classes via Henkin Keisler models The presentation is self contained and proofs of more advanced results from set theory are introduced as needed Audience Logicians in philosophy computer science linguistics and mathematics

Ultraproducts in the Theory of Models Simon Bernard Kochen, 1961 On the Compactness Theorem, Ultraproducts, and Henkin-Keisler Models Francisco Ramon Rios, 2004 **Sets, Models and Recursion Theory** Lev D. Beklemishev, 2000-04-01 **Sets Models and Recursion Theory** Model Theory C.C. Chang, H. Jerome Keisler, 2013-10-03 This bestselling textbook for higher level courses was extensively revised in 1990 to accommodate developments in model theoretic methods Topics include models constructed from constants ultraproducts and saturated and special models 1990

edition **Model Theory** Wilfrid Hodges, 1993-03-11 Model theory is concerned with the notions of definition interpretation and structure in a very general setting and is applied to a wide range of other areas such as set theory geometry algebra and computer science This book provides an integrated introduction to model theory for graduate students **Model Theory** María Manzano, 1999 Model theory which is concerned with the relationship between mathematical structures and logic now has a wide range of applications in areas such as computing philosophy and linguistics This book suitable for both mathematicians and students from outside the field provides a clear and readable introduction to the subject

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