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**Sinopsis**

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A tribute to Tarski's legacy, this volume gives an overview on how a central part of Tarskian algebraic logic developed in the last 30 years

Intends to be a continuation of the Henkin-Monk-Tarski monographs

Contains 18 survey papers on main achievements and on new research directions in the theory since 1985

Gives a glimpse into the state-of-the-art theory of algebras of relations

Algebraic logic is a subject in the interface between logic, algebra and geometry, it has strong connections with category theory and combinatorics. Tarski's quest for finding structure in logic leads to cylindric-like algebras as studied in this book, they are among the main players in Tarskian algebraic logic. Cylindric algebra theory can be viewed in many ways: as an algebraic form of definability theory, as a study of higher-dimensional relations, as an enrichment of Boolean Algebra theory, or, as logic in geometric form ("cylindric" in the name refers to geometric aspects). Cylindric-like algebras have a wide range of applications, in, e.g., natural language theory, data-base theory, stochastics, and even in relativity theory. The present volume, consisting of 18 survey papers, intends to give an overview of the main achievements and new research directions in the past 30 years, since the publication of the Henkin-Monk-Tarski monographs. It is dedicated to the memory of Leon Henkin.?

Content Level » Research

Keywords » Algebraic Logic - Algebras of Relations - Cylindric Algebras - Foundation of Mathematics - Model Theory - Theory Morphisms

Related subjects » Algebra - Mathematics - Theoretical Computer Science

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