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Klaus Denecke, Shelly L. Wismath



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Universal Algebra for Computer Scientists Wolfgang Wechler, 2012-12-06 A new model theoretic approach to universal algebra is offered in this book. Written for computer scientists it presents a systematic development of the methods and results of universal algebra that are useful in a variety of applications in computer science. The notation is simple and the concepts are clearly presented. The book concerns the algebraic characterization of axiomatic classes of algebras: equational, implicational and universal Horn classes by closure operators, generalizing the famous Birkhoff Variety Theorem and the algebraic characterization of the related theories. The book also presents a thorough study of term rewriting systems. Besides basic notions the Knuth Bendix completion procedure and termination proof methods are considered. A third main topic is that of fixpoint techniques and complete ordered algebras. Algebraic specifications of abstract data types and algebraic semantics of recursive program schemes are treated as applications. The book is self contained and suitable both as a textbook for graduate courses and as a reference for researchers.

[Universal Algebra and Applications in Theoretical Computer Science](#) Klaus Denecke, Shelly L. Wismath, 2018-10-03 Over the past 20 years the emergence of clone theory, hyperequational theory, commutator theory and tame congruence theory has led to a growth of universal algebra both in richness and in applications, especially in computer science. Yet most of the classic books on the subject are long out of print and to date no other book has integrated these theories with the long established work that supports them. *Universal Algebra and Applications in Theoretical Computer Science* introduces the basic concepts of universal algebra and surveys some of the newer developments in the field. The first half of the book provides a solid grounding in the core material. A leisurely pace, careful exposition, numerous examples and exercises combine to form an introduction to the subject ideal for beginning graduate students or researchers from other areas. The second half of the book focuses on applications in theoretical computer science and advanced topics including Malcev conditions, tame congruence theory, clones and commutators. The impact of the advances in universal algebra on computer science is just beginning to be realized and the field will undoubtedly continue to grow and mature. *Universal Algebra and Applications in Theoretical Computer Science* forms an outstanding text and offers a unique opportunity to build the foundation needed for further developments in its theory and in its computer science applications.

Algebraic Logic and Universal Algebra in Computer Science Clifford H. Bergman, Roger D. Maddux, Don L. Pigozzi, 2000-11-13

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Don Pigozzi on Abstract Algebraic Logic, Universal Algebra, and Computer Science Janusz Czelakowski, 2018-03-20 This book celebrates the work of Don Pigozzi on the occasion of his 80th birthday. In addition to articles written by leading specialists and his disciples it presents Pigozzi's scientific output and discusses his impact on the development of science. The book both catalogues his works and offers an extensive profile of Pigozzi as a person sketching the most important events, not only related to his scientific activity but also from his personal life. It reflects Pigozzi's

contribution to the rise and development of areas such as abstract algebraic logic AAL universal algebra and computer science and introduces new scientific results Some of the papers also present chronologically ordered facts relating to the development of the disciplines he contributed to especially abstract algebraic logic The book offers valuable source material for historians of science especially those interested in history of mathematics and logic Algebraic Logic and Universal Algebra in Computer Science Clifford H. Bergman,1990 Universal Algebra George Grätzer,2008-12-15 Universal Algebra heralded as the standard reference in a field notorious for the lack of standardization has become the most authoritative consistently relied on text in a field with applications in other branches of algebra and other fields such as combinatorics geometry and computer science Each chapter is followed by an extensive list of exercises and problems The state of the art account also includes new appendices with contributions from B J nsson R Quackenbush W Taylor and G Wenzel and a well selected additional bibliography of over 1250 papers and books which makes this an indispensable new edition for students faculty and workers in the field This book will certainly be in the years to come the basic reference to the subject The American Mathematical Monthly First Edition In this reviewer s opinion the author has more than succeeded in his aim The problems at the end of each chapter are well chosen there are more than 650 of them The book is especially suitable for self study as the author frequently provides ample explanation not only of what he is proving but also of how and why he is proving it As a reference work for the specialist or a text for the student the book is highly recommended Mathematical Reviews First Edition Since the first day of its appearance in 1968 this book has been the standard reference in universal algebra and no book since has reached its quality Journal of Symbolic Logic Second Edition Basic Category Theory for Computer Scientists Benjamin C. Pierce,1991-08-07 Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science especially in programming language semantics domain theory and concurrency where it is already a standard language of discourse Assuming a minimum of mathematical preparation Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory including limits functors natural transformations adjoints and cartesian closed categories Four case studies illustrate applications of category theory to programming language design semantics and the solution of recursive domain equations A brief literature survey offers suggestions for further study in more advanced texts Contents Tutorial Applications Further Reading Universal Algebraic Logic Hajnal Andréka,Zalán Gyenis,István Németi,Ildikó Sain,2022-11-01 This book gives a comprehensive introduction to Universal Algebraic Logic The three main themes are i universal logic and the question of what logic is ii duality theories between the world of logics and the world of algebra and iii Tarskian algebraic logic proper including algebras of relations of various ranks cylindric algebras relation algebras

polyadic algebras and other kinds of algebras of logic One of the strengths of our approach is that it is directly applicable to a wide range of logics including not only propositional logics but also e g classical first order logic and other quantifier logics Following the Tarskian tradition besides the connections between logic and algebra related logical connections with geometry and eventually spacetime geometry leading up to relativity are also part of the perspective of the book Besides Tarskian algebraizations of logics category theoretical perspectives are also touched upon This book apart from being a monograph containing state of the art results in algebraic logic can be used as the basis for a number of different courses intended for both novices and more experienced students of logic mathematics or philosophy For instance the first two chapters can be used in their own right as a crash course in Universal Algebra

Universal Algebra and Its Links with Logic, Algebra, Combinatorics, and Computer Science Peter Burmeister, 1984

Fundamentals of Computation Theory Rusins Freivalds, 2003-05-15 This book constitutes the refereed proceedings of the 13th International Symposium Fundamentals of Computation Theory FCT 2001 as well as of the International Workshop on Efficient Algorithms WEA 2001 held in Riga Latvia in August 2001 The 28 revised full FCT papers and 15 short papers presented together with six invited contributions and 8 revised full WEA papers as well as three invited WEA contributions have been carefully reviewed and selected Among the topics addressed are a broad variety of topics from theoretical computer science algorithmics and programming theory The WEA papers deal with graph and network algorithms flow and routing problems scheduling and approximation algorithms etc

Universal Algebra and Coalgebra Klaus Denecke, Shelly L. Wismath, 2009 The purpose of this book is to study the structures needed to model objects in universal algebra universal coalgebra and theoretical computer science Universal algebra is used to describe different kinds of algebraic structures while coalgebras are used to model state based machines in computer science The connection between algebras and coalgebras provides a way to connect static data oriented systems with dynamical behavior oriented systems Algebras are used to describe data types and coalgebras describe abstract systems or machines The book presents a clear overview of the area from which further study may proceed

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Hajnal Andr ka and Istv n N meti on Unity of Science Judit Madar sz, Gergely Sz kely, 2021-05-31 This book features more than 20 papers that celebrate the

work of Hajnal Andr ka and Istv n N meti It illustrates an interaction between developing and applying mathematical logic The papers offer new results as well as surveys in areas influenced by these two outstanding researchers They also provide details on the after life of some of their initiatives Computer science connects the papers in the first part of the book The second part concentrates on algebraic logic It features a range of papers that hint at the intricate many way connections between logic algebra and geometry The third part explores novel applications of logic in relativity theory philosophy of logic philosophy of physics and spacetime and methodology of science They include such exciting subjects as time travelling in emergent spacetime The short autobiographies of Hajnal Andr ka and Istv n N meti at the end of the book describe an adventurous journey from electric engineering and Maxwell s equations to a complex system of computer programs for designing Hungary s electric power system to exploring and contributing deep results to Tarskian algebraic logic as the deepest core theory of such questions then on to applications of the results in such exciting new areas as relativity theory in order to rejuvenate logic itself

Fundamentals of Computation Theory ,2001 *Mathematical Problems from Applied Logic I* Dov M. Gabbay,Michael Zakharyashev,2006-07-02 Mathematical Problems from Applied Logic I presents chapters from selected world renowned logicians Important topics of logic are discussed from the point of view of their further development in light of requirements arising from their successful application in areas such as Computer Science and AI language An overview of the current state as well as open problems and perspectives are clarified in such fields as non standard inferences in description logics logic of provability logical dynamics and computability theory The book contains interesting contributions concerning the role of logic today including some unexpected aspects of contemporary logic and the application of logic

Tenth Annual IEEE Symposium on Logic in Computer Science Dexter Kozen,1995 Studia Scientiarum Mathematicarum Hungarica ,1984 **Annual Symposium on Theoretical Aspects of Computer Science** ,1992 **Laboratory for Computer Science Progress Report** Massachusetts Institute of Technology. Laboratory for Computer Science,1981

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