MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE

DISCRETE MATHEMATICS AND ITS APPLICATIONS

SEVENTH EDITION

JUDITH L. GERSTING

Mathematical Structures For Computer Science

Ronald E. Prather

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Discrete mathematical structures in computer science Margarita Carmen S. Paterno,2003 **Samson Abramsky on Logic and Structure in Computer Science and Beyond** Alessandra Palmigiano,Mehrnoosh Sadrzadeh,2023-08-01 Samson Abramsky s wide ranging contributions to logical and structural aspects of Computer Science have had a major influence on the field This book is a rich collection of papers inspired by and extending Abramsky s work It contains both survey material and new results organised around six major themes domains and duality game semantics contextuality and quantum computation comonads and descriptive complexity categorical and logical semantics and probabilistic computation These relate to different stages and aspects of Abramsky s work reflecting its exceptionally broad scope and his ability to illuminate and unify diverse topics Chapters in the volume include a review of his entire body of work spanning from philosophical aspects to logic programming language theory quantum theory economics and psychology and relating it to a theory of unification of sciences using dual adjunctions The section on game semantics shows how Abramsky s work has led to a powerful new paradigm for the semantics of computation The work on contextuality and categorical quantum mechanics has been highly influential and provides the foundation for increasingly widely used methods in quantum computing The

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