



Mathematical Foundations of Computer Science

G. Shanker Rao

I.K. International

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Mathematical Foundations of Computer Science G. Shanker Rao, 2006 Mathematical Foundations of Computer Science explains the fundamental concepts in mathematics It can be used by the students in computer science as an introduction to the underlying ideas of mathematics for computer science It explains topics like mathematical logic predicates relations functions combinatorics algebraic structures and graph theory It would be useful for the students of B Tech BCA MCA Key Features Comprehensive discussion on logic function algebraic systems recurrence relations and graph theory Wide variety of exercises at all levels Several worked out examples *Mathematical Foundations of Computer Science* Bhavanari Satyanarayana, T.V. Pradeep Kumar, Shaik Mohiddin Shaw, 2019-08-29 This book presents topics from mathematics which are relevant and useful to computer science This book treats basic topics such as number theory set theory functions etc in a simple way Each chapter has been planned as independent unit so that various interrelated topics can also be read independently Ample amount of examples and problems are given at the end of each chapter to help both the students and researchers Hints and answers are also given for the problems in the exercise to help the students for self learning Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka Mathematical Foundation of Computer Science J. Rajendra Prasad, T. Rama Rao, A. Madana Mohan Rao, 2009

Mathematical Foundations of Computer Science Peter A. Fejer, Dan A. Simovici, 2012-12-06 Mathematical Foundations of Computer Science Volume I is the first of two volumes presenting topics from mathematics mostly discrete mathematics which have proven relevant and useful to computer science This volume treats basic topics mostly of a set theoretical nature sets functions and relations partially ordered sets induction enumerability and diagonalization and illustrates the usefulness of mathematical ideas by presenting applications to computer science Readers will find useful applications in algorithms databases semantics of programming languages formal languages theory of computation and program verification The material is treated in a straightforward systematic and rigorous manner The volume is organized by mathematical area making the material easily accessible to the upper undergraduate students in mathematics as well as in computer science and each chapter contains a large number of exercises The volume can be used as a textbook but it will also be useful to researchers and professionals who want a thorough presentation of the mathematical tools they need in a single source In addition the book can be used effectively as supplementary reading material in computer science courses particularly those courses which involve the semantics of programming languages formal languages and automata and logic programming

Mathematical Foundations of Computer Science 1974 A. Blikle, 1975-05-02 **Mathematical Foundation for Computer Science** M. Vasanthi, 2013 This textbook covers mathematical logic normal forms graphs trees and relations The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner Every topic is illustrated with a number of problems of increasing complexities which will help the

beginner understand the fundamentals involved and enable them to solve various problems **Mathematical Foundations of Computer Science** Peter A Fejer,Dan A Simovici,1990-12-05 **Mathematical Foundations of Computer Science 2011** Filip Murlak,Piotr Sankowski,2011-08-09 This volume constitutes the refereed proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science MFCS 2011 held in Warsaw Poland in August 2011 The 48 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 129 submissions Topics covered include algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs and theoretical issues in artificial intelligence Mathematical Foundations of Computer Science 2008 Edward Ochmanski,Jerzy Tyszkiewicz,2008-08-12 This book constitutes the refereed proceedings of the 33rd International Symposium on Mathematical Foundations of Computer Science MFCS 2008 held in Torun Poland in August 2008 The 45 revised full papers presented together with 5 invited lectures were carefully reviewed and selected from 119 submissions All current aspects in theoretical computer science and its mathematical foundations are addressed ranging from algorithmic game theory algorithms and data structures artificial intelligence automata and formal languages bioinformatics complexity concurrency and petrinets cryptography and security logic and formal specifications models of computations parallel and distributed computing semantics and verification **Mathematical Foundations of Computer Science 2002** Krzysztof Diks,Wojciech Rytter,2007-10-23 This book constitutes the refereed proceedings of the 27th International Symposium on Mathematical Foundations of Computer Science MFCS 2002 held in Warsaw Poland in August 2002 The 48 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 108 submissions All relevant aspects of theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory algorithms and complexity to programming theory formal methods and mathematical logic *Mathematical Foundations of Computer Science 2009* Rastislav Kráľovic,Damian Niwinski,2009-08-19 This book constitutes the refereed proceedings of the 34th International Symposium on Mathematical Foundations of Computer Science MFCS 2009 held in Novy Smokovec High Tatras Slovakia in August 2009 The 56 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from 148 submissions All current aspects in theoretical computer science and its mathematical foundations are addressed including algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development

foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs theoretical issues in artificial intelligence

Mathematical Foundations of Computer Science 2005 Joanna Jedrzejowicz, 2005-08-17 This book constitutes the refereed proceedings of the 30th International Symposium on Mathematical Foundations of Computer Science MFCS 2005 held in Gdansk Poland in August September 2005 The 62 revised full papers presented together with full papers or abstracts of 7 invited talks were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from quantum computing approximation automata circuits scheduling games languages discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic

Mathematical Foundations of Computer Science 1991 Andrzej Tarlecki, 1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9 13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers

Mathematical Foundations of Computer Science, 1972 **Mathematical Foundations of Computer Science 1976** Antoni Mazurkiewicz, A. Mazurkiewicz, 1976-07 **Foundation Mathematics for Computer Science** John Vince, 2020-03-17 In this second edition of *Foundation Mathematics for Computer Science* John Vince has reviewed and edited the original book and written new chapters on combinatorics probability modular arithmetic and complex numbers These subjects complement the existing chapters on number systems algebra logic trigonometry coordinate systems determinants vectors matrices geometric matrix transforms differential and integral calculus During this journey the author touches upon more esoteric topics such as quaternions octonions Grassmann algebra Barrycentric coordinates transfinite sets and prime numbers John Vince describes a range of mathematical topics to provide a solid foundation for an undergraduate course in computer science starting with a review of number systems and their relevance to digital computers and finishing with differential and integral calculus Readers will find that the author's visual approach will greatly improve their understanding as to why certain mathematical structures exist together with how they are used in real world applications This second edition includes new full colour illustrations to clarify the mathematical descriptions and in some cases equations are also coloured to reveal vital algebraic patterns The numerous worked examples will help consolidate the understanding of abstract mathematical concepts Whether you intend to pursue a career in programming scientific

visualisation artificial intelligence systems design or real time computing you should find the author's literary style refreshingly lucid and engaging and prepare you for more advanced texts *Mathematical Foundations of Computer Science 2014* Ersébet Csuhaj-Varjú, Martin Dietzfelbinger, Zoltán Ésik, 2014-08-12 This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science MFCS 2014 held in Budapest Hungary in August 2014 The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions The focus of the conference was on following topics Logic Semantics Automata Theory of Programming Algorithms Complexity Parallel and Distributed Computing Quantum Computing Automata Grammars and Formal Languages Combinatorics on Words Trees and Games **Mathematical Foundations of Computer Science 2010** ,2011-04-11 **Mathematical Foundations of Computer Science 2015** Giuseppe F Italiano, Giovanni Pighizzini, Donald T. Sannella, 2015-08-10 This two volume set LNCS 9234 and 9235 constitutes the refereed conference proceedings of the 40th International Symposium on Mathematical Foundations of Computer Science MFCS 2015 held in Milan Italy in August 2015 The 82 revised full papers presented together with 5 invited talks were carefully selected from 201 submissions The papers feature high quality research in all branches of theoretical computer science They have been organized in the following topical main sections logic semantics automata and theory of programming volume 1 and algorithms complexity and games volume 2 *Mathematical Foundations of Computer Science 2000* Mogens Nielsen, Branislav Rován, 2003-06-29 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book

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