

COMPUTATIONAL METHODS IN APPLIED MATHEMATICS

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Mathematical Methods Department Of Computing Imperial Book

Frank R. Hickman



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International Biographical Dictionary of Computer Pioneers John A. N. Lee, J. A. N. Lee, 1995 First Published in 1996 Routledge is an imprint of Taylor Francis an informa company

Topology Via Logic Steven Vickers, 1989 Now in paperback Topology via Logic is an advanced textbook on topology for computer scientists Based on a course given by the author to postgraduate students of computer science at Imperial College it has three unusual features First the introduction is from the locale viewpoint motivated by the logic of finite observations this provides a more direct approach than the traditional one based on abstracting properties of open sets in the real line Second the methods of locale theory are freely exploited Third there is substantial discussion of some computer science applications Although books on topology aimed at mathematics exist no book has been written specifically for computer scientists As computer scientists become more aware of the mathematical foundations of their discipline it is appropriate that such topics are presented in a form of direct relevance and applicability This book goes some way towards bridging the gap

Automated Practical Reasoning Jochen Pfalzgraf, Dongming Wang, 2012-12-06 This book is a collection of selected papers written by researchers of our RISC institute Research Institute for Symbolic Computation along with the ESPRIT MEDLAR Project Mechanizing Deduction in the Logics of Practical Reasoning Naturally the MEDLAR Project was and is the focal point for our institute whose main objective is the combination of foundational research in the area of symbolic computation and possible applications thereof for high tech industrial projects I am grateful to the director of the MEDLAR project Jim Cunningham for his enthusiasm profound expertise and continuous effort to manage a fruitful cooperation between various European working groups in the area of the project and for giving us the opportunity to be part of this challenging endeavor I also acknowledge and feel indebted to Jochen Pfalzgraf for managing the RISC part of the MEDLAR project and to both him and Dongming Wang for editing this volume and organizing the refereeing process

The B Language and Method Kevin Lano, 2012-12-06 B is one of the few formal methods which has robust commercially available tool support for the entire development lifecycle from specification through to code generation This volume provides a comprehensive introduction to the B Abstract Machine Notation and to how it can be used to support formal specification and development of high integrity systems A strong emphasis is placed on the use of B in the context of existing software development methods including object oriented analysis and design The text includes a large number of worked examples graduated exercises in B AMN specification and development all of which have been class tested two extended case studies of the development process and an appendix of proof techniques suitable for B Based on material which has been used to teach B at postgraduate and undergraduate level this volume will provide invaluable reading a wide range of people including students project technical managers and workers and researchers with an interest in methods integration and B semantics

Mathematical Methods in Interdisciplinary Sciences Snehashish Chakraverty, 2020-06-15 Brings mathematics to bear on your real world scientific

problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems The collection of chapters Dr Snehashish Chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study Graduate students postgraduate students researchers and professors will all benefit significantly from the author's clear approach to applied mathematics The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions Subjects include Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence It concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion problems

Logic and Computation Lawrence C. Paulson, 1987 This book is concerned with techniques for formal theorem proving with particular reference to Cambridge LCF Logic for Computable Functions Cambridge LCF is a computer program for reasoning about computation It combines the methods of mathematical logic with domain theory the basis of the denotational approach to specifying the meaning of program statements Cambridge LCF is based on an earlier theorem proving system Edinburgh LCF which introduced a design that gives the user flexibility to use and extend the system A goal of this book is to explain the design which has been adopted in several other systems The book consists of two parts Part I outlines the mathematical preliminaries elementary logic and domain theory and explains them at an intuitive level giving reference to more advanced reading Part II provides sufficient detail to serve as a reference manual for Cambridge LCF It will also be a useful guide for implementors of other programs based on the LCF approach

Formal Methods and Object Technology Stephen J. Goldsack, Stuart J.H. Kent, 2012-12-06 Rationale Software engineering aims to develop software by using approaches which enable large and complex program suites to be developed in a systematic way However it is well known that it is difficult to obtain the level of assurance of correctness required for safety critical software using old fashioned programming techniques The level of safety required becomes particularly high in software which is to function without a break for long periods of time since the software cannot be restarted and errors can accumulate Consequently programming for mission critical systems for example needs to address the requirements of correctness with particular care In the search for techniques for making software cheaper and more reliable two important but largely independent influences have been visible in recent years These are Object Technology Formal Methods First it has become evident that objects are and will remain an important concept in software Experimental languages of the 1970s introduced various concepts of package cluster module etc giving concrete expression to the importance of modularity and encapsulation the construction of software components hiding their state representations and algorithmic mechanisms from users exporting only those features mainly the procedure calling mechanisms which were needed in order to use the objects

This gives the software components a level of abstraction separating the view of what a module does for the system from the details of how it does them *Fundamentals of Computation Theory* Olaf Owe, Martin Steffen, Jan Arne Telle, 2011-08-09 This book constitutes the refereed proceedings of the 18th International Symposium Fundamentals of Computation Theory FCT 2011 held in Oslo Norway in August 2011 The 28 revised full papers presented were carefully reviewed and selected from 78 submissions FCT 2011 focused on algorithms formal methods and emerging fields such as ad hoc dynamic and evolving systems algorithmic game theory computational biology foundations of cloud computing and ubiquitous systems and quantum computation **Analysis for Knowledge-based Systems** Frank R. Hickman, 1989 Understanding Z J. M. Spivey, 1988-03-31 The Z notation is a language for expressing mathematical specifications of computing systems By providing a formal semantics for Z this book justifies the claim that Z is a precise specification language and provides a standard framework for understanding Z specifications

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