

# Lecture Notes in Computer Science

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## Mathematical Foundations of Software Development

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Edited by Hartmut Ehrig, Christiane Floyd,  
Maurice Nivat and James Thatcher



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# Mathematical Foundations Of Software Development

**Bernhard Möller**



## **Mathematical Foundations Of Software Development:**

**Mathematical Foundations of Software Engineering** Gerard O'Regan, 2023-05-04 This textbook presents an introduction to the mathematical foundations of software engineering. It presents the rich applications of mathematics in areas such as error correcting codes, cryptography, the safety and security critical fields, the banking and insurance fields, as well as traditional engineering applications. Topics and features: Addresses core mathematics for critical thinking and problem solving. Discusses propositional and predicate logic and various proof techniques to demonstrate the correctness of a logical argument. Examines number theory and its applications to cryptography. Considers the underlying mathematics of error correcting codes. Discusses graph theory and its applications to modelling networks. Reviews tools to support software engineering mathematics including automated and interactive theorem provers and model checking. Discusses financial software engineering including simple and compound interest, probability and statistics and operations research. Discusses software reliability and dependability and explains formal methods used to derive a program from its specification. Discusses calculus, matrices, vectors, complex numbers and quaternions as well as applications to graphics and robotics. Includes key learning topics, summaries and review questions in each chapter together with a useful glossary. This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how mathematics can assist them in building high quality and reliable software on time and on budget. The text also serves as an excellent self study primer for software engineers, quality professionals and software managers.

*Mathematical Foundations of Software Development* Hartmut Ehrig, 1985      **Mathematical Foundations of Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development (TAPSOFT), Berlin, March 25-29, 1985** Hartmut Ehrig, Christiane Floyd, Maurice Nivat, James Thatcher, 1985-03      **Mathematical Foundations of Software Development** Hartmut Ehrig, 1985      **Mathematical Foundations of Software Engineering** Gerard O'Regan, 2023      [Mathematical Foundations of Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development \(TAPSOFT\), Berlin, March 25-29, 1985](#) Hartmut Ehrig, Christiane Floyd, Maurice Nivat, James Thatcher, 1985

*Mathematical Foundations of Software Development* Hartmut Ehrig, Christiane Floyd, Maurice Nivat,      **Foundations of Algebraic Specification and Formal Software Development** Donald Sannella, Andrzej Tarlecki, 2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties. These foundations are built on a solid mathematical basis using elements of universal algebra, category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development. Once formally defined, these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting, conceptually revealing and

practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science      Software Engineering Processes Yingxu Wang, Graham King, 2000-04-21

Software engineering is playing an increasingly significant role in computing and informatics necessitated by the complexities inherent in large scale software development To deal with these difficulties the conventional life cycle approaches to software engineering are now giving way to the process system approach encompassing development me

**Software Engineering Foundations** Yingxu Wang, 2007-08-09 A groundbreaking book in this field Software Engineering Foundations A Software Science Perspective integrates the latest research methodologies and their applications into a unified theoretical framework Based on the author's 30 years of experience it examines a wide range of underlying theories from philosophy cognitive informatics denota      **Mathematics of Program Construction** Bernhard

Möller, 1995-07-10 This volume constitutes the proceedings of the Third International Conference on the Mathematics of Program Construction held at Kloster Irsee Germany in July 1995 Besides five invited lectures by distinguished researchers there are presented 19 full revised papers selected from a total of 58 submissions The general theme is the use of crisp clear mathematics in the discovery and design of algorithms and in the development of corresponding software and hardware among the topics addressed are program transformation program analysis program verification as well as convincing case studies      **Magnetic Resonance Angiography** I.P. Arlart, G.M. Bongartz, G. Marchal, 2002-09-12 In this completely revised

second edition internationally acknowledged experts discuss the principles and technical aspects of MR angiography its diverse clinical applications and its advantages and limitations A large number of typical MR angiograms are presented suitable protocols are described and comparison is made with other vascular imaging techniques Chapters focus on image display techniques blood flow quantification hardware configurations and the limitations and artifacts of MR angiography Suitable examination protocols for different vascular regions and lesions are described to facilitate correct application of the technique Systematic comparison is made with other vascular imaging techniques      **Translating Relational Queries Into**

**Iterative Programs** Johann C. Freytag, 1987-06-24 The authors discuss and analyse various spectroscopic effects in relation to the interaction mechanisms of molecules with laser fields The contents are organized according to the aspects of molecular spectra that reflect intra and intermolecular interactions and the influence of the molecular environment After a brief summary of molecular energy levels and spectra the discussion centers on molecular spectroscopy with balanced

treatments of the coarse and fine structures of molecular two photon spectra Doppler free spectra via nonlinear uncoupling interactions of lasers with molecules the spectral effects of nonlinear coupling interactions of lasers with molecules and methods of selective simplification and identification of molecular spectra The theory is given throughout in terms of the density matrix equations Concepts are illustrated by examples based on simple molecules

**ANNA A Language for Annotating Ada Programs** David C. Luckham, 1987-07-15 This reference manual of ANNA is another volume addressed to the ADA community ANNA is a language extension of ADA to include facilities for formally specifying the intended behavior of ADA programs It is designed to meet a perceived need to augment ADA with precise machine processable annotations so that well established formal methods of specification and documentation can be applied to ADA programs The current ANNA design includes annotations of all ADA constructs except tasking Similar extensions for formal specification can be made to other Algol like languages such as Pascal PL 1 Concurrent Pascal and Modula essentially these extensions would be subsets of ANNA The design of ANNA was undertaken from the beginning with four principal considerations 1 Constructing annotations should be easy for the ADA programmer and should depend as much as possible on notation and concepts of ADA 2 ANNA should possess language features that are widely used in the specification and documentation of programs 3 ANNA should provide a framework within which the various established theories of formally specifying programs may be applied to ADA 4 Annotations should be equally well suited for different possible applications during the life cycle of a program Such applications include not only testing debugging and formal verification of a finished program but also specification of program parts during the earlier stages of requirements analysis and program design

A Review of Ada Tasking Alan Burns, Andrew M. Lister, Andrew J. Wellings, 1987-06-24 Ada is unquestionably one of the most significant programming languages to emerge in the last decade The manner of its inception and support by the US Department of Defense DoD ensures that it will be used extensively for the indefinite future in programming large and complex systems The growing availability of compilers means that many organisations are already committed to using the language for sizable and significant applications As a perhaps inevitable result of its design goals Ada is a large language It has Pascal like control and type constructs a mechanism for exception handling a package structure for information hiding decomposition and separate compilation facilities for low level programming and a tasking model of concurrency It is perhaps this last area that has generated most debate criticism and disagreement The purpose of this book is to review the tasking model in the light of the extensive analysis and comment which has appeared in the literature The review is necessarily wide ranging including discussion of Ada as a general purpose concurrent programming language Ada as a language for embedded and distributed systems implementation issues with particular reference to distributed systems formal semantics specification and verification proposed language modifications By consolidating this discussion within the confines of a single review potential users of the tasking facility are enabled to familiarise themselves with all the factors which may impinge upon the

performance reliability and correctness of their software The book also provides a focus for any debate on modifications to the Ada language or developments from it

Graph-Theoretic Concepts in Computer Science Gottfried Tinhofer, Gunther Schmidt, 1987 Graph theoretic concepts are developed by computer scientists in order to model algorithms nets rewriting systems distributed systems parallelism geometric and layout concepts Their complexity is studied under various randomness assumptions This volume contains contributions to the twelfth of a series of annual workshops designed to bring together researchers using graph theoretic methods Its purpose is to broadcast emerging new developments from and to a diversity of application fields The topics covered include Graph Grammars Graph Manipulation Nets Complexity Issues Algorithmic and Network Considerations Outerplanar Graphs Graph Isomorphism Parallelism and Distributed Systems Graphs and Geometry Randomness Considerations Applications in Chemistry Specific Algorithms N

VDM '87. VDM - A Formal Method at Work VDM-Europe, 1987-03-11 Erste Untersuchungen der Halswirbelsäule werden stets mit Hilfe von Röntgenaufnahmen durchgeführt und in den meisten Fällen dienen diese als Grundlage für die Diagnose Mißbildungen Tumoren und noch für Traumata Rheuma und sogar ganz gewöhnliche Nackenschmerzen erfordern eine radiologische Untersuchung der Wirbelsäule Die Auswertung jedoch ist schwierig Nimmt man einen Halswirbel in die Hand so stellt man fest um welches komplexes Gebilde es sich hierbei handelt Bei radiologischen Aufnahmen wird die Auswertung noch durch die sich überlappenden Knochenteile Anhebungen und die verschiedenen Blickwinkel erschwert Das Buch von J F Bonneville und F Cattin stellt eine originelle Interpretationsmethode von Röntgenaufnahmen vor die die Auswertung wesentlich erleichtert Dieses Buch zeigt daß zwei bzw dreidimensionale Computertomogramme eine ausgezeichnete Hilfe zum Verständnis von konventionellen Röntgenbildern sein können Der Leser bekommt gleichsam Zugang zu jedem Einzelteil des Knochens und von da an wird alles einfach Überlappungen verschwinden die in der Röntgenaufnahme verborgenen Tücken werden sichtbar die Anatomie triumphiert das Bild lebt Die Halswirbelsäule von J F Bonneville und F Cattin ist unentbehrlich für jeden Radiologen in seiner täglichen Praxis aber ebenso auch für Chirurgen Rheumatologen und Physiotherapeuten die sich für die Halswirbelsäule interessieren

**WOPPLOT 86 Parallel Processing: Logic, Organization, and Technology** Jörg D. Becker, Ignaz Eisele, 1987

WOPPLOT 86 Workshop on Parallel Processing Logic Organization and Technology gathered together experts from various fields for a broad overview of current trends in parallel processing There are contributions from logic e.g the connection between time and logic or non monotonic reasoning from organizational structure theory of great importance for pyramid architecture and structure representation from intrinsic parallelism and problem classification from developments in future technologies 3 D Silicon technology molecular electronics and from various applications pattern storage in adaptive memories simulation of physical systems The proceedings show clearly that progress in parallel processing is an interdisciplinary goal they present a cross section of the state of the art as well as of future trends Furthermore some contributions in particular those from logic and organization deserve a broader interest also outside the field of parallel

processing     Petri Nets: Central Models and Their Properties Wilfried Brauer, Wolfgang Reisig, Grzegorz Rozenberg, 2006-04-11 Petri Nets represent a long and sustained effort to develop concepts theories and tools to aid in design and analysis of concurrent systems They are used in many areas of computer science including software engineering data base and in formation systems computer architecture and operating systems communication protocols and computer networks process control and socio technical systems such as office communication and man machine interaction Quite substantial theory has been developed for Petri Nets It reflects all major problem areas of concurrent distributed systems and covers many successfully applied principles and analysis techniques for systems organisation Since the time that C A Petri has presented his original ideas a rich body of knowledge has been developed a recent bibliography in *Advances in Petri Nets* 1981 includes more than 2000 entries Already in 1979 an Advanced Course on Petri Nets was organized in Hamburg West Germany aiming at systematizing the existing knowledge and making it well accessible to a wide audience of computer scientists interested in theory and applications of concurrent systems This course has turned out to be successful in the sense that it has initiated a lot of new research into applications and theory of Petri Nets This had led to another Advanced Course in 1986 in Bad Honnef West Germany where during two weeks more than 30 lectures were presented covering the most important current developments in the area of Petri Nets     *Mathematical Foundations of Computer Science 1988* Michal Chytil, Ladislav Janiga, Václav Koubek, 1988 This volume contains 11 invited lectures and 42 communications presented at the 13th Conference on Mathematical Foundations of Computer Science MFCS 88 held at Carlsbad Czechoslovakia August 29 September 2 1988 Most of the papers present material from the following four fields complexity theory in particular structural complexity concurrency and parallelism formal language theory semantics Other areas treated in the proceedings include functional programming inductive syntactical synthesis unification algorithms relational databases and incremental attribute evaluation

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