ERROR-FREE POLYNOMIAL MATRIX COMPUTATIONS

E.V. Krishnamurthy



Error Free Polynomial Matrix Computations

Franco P. Preparata, Michael I. Shamos

Error Free Polynomial Matrix Computations:

Error-Free Polynomial Matrix Computations E.V. Krishnamurthy,2012-12-06 This book is written as an introduction to polynomial matrix computations It is a companion volume to an earlier book on Methods and Applications of Error Free Computation by R T Gregory and myself published by Springer Verlag New York 1984 This book is intended for seniors and graduate students in computer and system sciences and mathematics and for researchers in the fields of computer science numerical analysis systems theory and computer algebra Chapter I introduces the basic concepts of abstract algebra including power series and polynomials This chapter is essentially meant for bridging the gap between the abstract algebra and polynomial matrix computations Chapter II is concerned with the evaluation and interpolation of polynomials The use of these techniques for exact inversion of poly nomial matrices is explained in the light of currently available error free computation methods In Chapter III the principles and practice of Fourier evaluation and interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is consi dered

Polynomial and Matrix Computations Dario Bini, Victor Y. Pan, 2012-12-06 Our Subjects and Objectives This book is about algebraic and symbolic computation and numerical computing with matrices and polynomials It greatly extends the study of these topics presented in the celebrated books of the seventies AHU and BM these topics have been under represented in CLR which is a highly successful extension and updating of AHU otherwise Compared to AHU and BM our volume adds extensive material on parallel com putations with general matrices and polynomials on the bit complexity of arithmetic computations including some recent techniques of data compres sion and the study of numerical approximation properties of polynomial and matrix algorithms and on computations with Toeplitz matrices and other dense structured matrices The latter subject should attract people working in numerous areas of application in particular coding signal processing control algebraic computing and partial differential equations The au thors teaching experience at the Graduate Center of the City University of New York and at the University of Pisa suggests that the book may serve as a text for advanced graduate students in mathematics and computer science who have some knowledge of algorithm design and wish to enter the exciting area of algebraic and numerical computing The potential readership may also include algorithm and software designers and researchers specializing in the design and analysis of algorithms computational complexity algebraic and symbolic computing and numerical computation Fast Error-free Algorithms for Polynomial Matrix Computations John S. Baras, David C. MacEnany, Robert L. Munach, University of Maryland at College Park. Systems Research Center, 1990 In this paper we develop highly efficient error free algorithms for most of the important computations needed in linear systems over fields or rings We show that the structure of the underlying rings and modules is critical in designing such algorithms We also discuss the importance of such algorithms for controller synthesis Error Free Polynomial Matrix Computation E. V. Krishnamurthy, 1985 Methods and Applications of Error-Free Computation R. T. Gregory, E. V. Krishnamurthy, 2012-12-06

This book is written as an introduction to the theory of error free computation In addition we include several chapters that illustrate how error free com putation can be applied in practice The book is intended for seniors and first year graduate students in fields of study involving scientific computation using digital computers and for researchers in those same fields who wish to obtain an introduction to the subject We are motivated by the fact that there are large classes of ill conditioned problems and there are numerically unstable algorithms and in either or both of these situations we cannot tolerate rounding errors during the numerical computations involved in obtaining solutions to the problems Thus it is important to study finite number systems for digital computers which have the property that computation can be performed free of rounding errors In Chapter I we discuss single modulus and multiple modulus residue number systems and arithmetic in these systems where the operands may be either integers or rational numbers In Chapter II we discuss finite segment p adic number systems and their relationship to the p adic numbers of Hensel 1908 Each rational number in a certain finite set is assigned a unique Hensel code and arithmetic operations using Hensel codes as operands is mathe matically equivalent to those same arithmetic operations using the cor responding rational numbers as operands Finite segment p adic arithmetic shares with residue arithmetic the property that it is free of rounding errors **Relational Database Technology Suad** Alagic, 2012-12-06 This book presents a unified collection of concepts tools and techniques that constitute the most important technology available today for the design and implementation of information systems. The framework adopted for this integration goal is the one offered by the relational model of data its applications and implementations in multiuser and distributed environments. The topics presented in the book include conceptual modeling of application environments using the relational model formal properties of that model and tools such as relational languages which go with it techniques for the logical and physical design of relational database systems and their imple mentations. The book attempts to develop an integrated methodology for addressing all these issues on the basis of the relational approach and various research and practical developments related to that approach This book is the only one available today that presents such an integration The diversity of approaches to data models to logical and physical database design to database application programming and to use and imple mentation of database systems calls for a common framework for all of them It has become difficult to study modern database technology with out such a unified approach to a diversity of results developed during the vigorous growth of the database area in recent years let alone to teach a course on the subject **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 **Beauty Is Our Business** W.H.J. Feijen, A.J.M. van Gasteren, David Gries, J. Misra, 2012-12-06 More than anything else this book is a tribute to Edsger W Dijkstra on the occasion of his sixtieth birthday by just a few of those fortunate enough to be influenced by him and his work and to be called his friend or relation his master colleague or pupil This book contains fifty four technical contributions in different areas of endeavor although many of them deal with an area of particular concern to Dijkstra programming Each contribution is relatively short and could be digested in one sitting Together they form a nice cross section of the discipline of programming at the beginning of the nineties While many know of Dijkstra's technical contributions they may not be aware of his ultimate goal the mastery of complexity in mathematics and computing science He has forcefully argued that beauty and elegance are essential to this mastery. The title of this book chosen to reflect his ultimate goal comes from a sentence in an article of his on some beautiful arguments using mathematical induction when we recognize the battle against chaos mess and unmastered complexity as one of computing sci ence s major callings we must admit that Beauty Is Our Business

Computing Handbook Allen Tucker, Teofilo Gonzalez, Heikki Topi, Jorge Diaz-Herrera, 2022-05-29 This two volume set of the Computing Handbook Third Edition previously the Computer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established

leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management Computing Handbook Teofilo Gonzalez, Jorge Diaz-Herrera, Allen Tucker, 2014-05-07 The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Predicate Calculus and Program Semantics Edsger W. Dijkstra, Carel S. Scholten, 2012-12-06 This booklet presents a reasonably self contained theory of predicate trans former semantics Predicate transformers were introduced by one of us EWD as a means for defining programming language semantics in a way that would directly support the systematic development of programs from their formal specifications They met their original goal but as time went on and program derivation became a more and more formal activity their informal introduction and the fact that many of their properties had never been proved became more and more unsatisfactory And so did the original exclusion of unbounded nondeterminacy In 1982 we started to remedy these shortcomings This little monograph is a result of that work A possible and even likely criticism is that anyone sufficiently versed in lattice theory can easily derive all of our results himself That criticism would be correct but somewhat beside the point The first remark is that the average book on lattice theory is several times fatter and probably less self contained than this booklet The second remark is that the predicate transformer semantics provided only one of the reasons for going through the pains of An Introduction to Kolmogorov Complexity and Its Applications Ming Li, Paul Vitanyi, 2013-04-18 With publication this book the authors are trying to present in a unified treatment an introduction to the central ideas and their applications of the Kolmogorov Complexity the theory dealing with the quantity of information in individual objects This book is appropriate for either a one or two semester introductory course in departments of computer science mathematics physics probability theory and statistics artificial intelligence and philosophy Although the mathematical theory of Kolmogorov complexity contains sophisticated mathematics the amount of math one needs to know to apply the notions in widely divergent areas is

very little The authors purpose is to develop the theory in detail and outline a wide range of illustrative applications This book is an attempt to grasp the mass of fragmented knowledge of this fascinating theory Chapter 1 is a compilation of material on the diverse notations and disciplines we draw upon in order to make the book self contained The mathematical theory of Kolmogorov complexity is treated in chapters 2 4 the applications are treated in chapters 4 8 **Geometry** Franco P. Preparata, Michael I. Shamos, 2012-12-06 From the reviews This book offers a coherent treatment at the graduate textbook level of the field that has come to be known in the last decade or so as computational geometry. The book is well organized and lucidly written a timely contribution by two founders of the field It clearly demonstrates that computational geometry in the plane is now a fairly well understood branch of computer science and mathematics It also points the way to the solution of the more challenging problems in dimensions higher than two Mathematical Reviews 1 This remarkable book is a comprehensive and systematic study on research results obtained especially in the last ten years The very clear presentation concentrates on basic ideas fundamental combinatorial structures and crucial algorithmic techniques The plenty of results is clever organized following these guidelines and within the framework of some detailed case studies A large number of figures and examples also aid the understanding of the material Therefore it can be highly recommended as an early graduate text but it should prove also to be essential to researchers and professionals in applied fields of computer aided design computer graphics and robotics Biometrical Journal 2 Specification and Transformation of Programs Helmut A. Partsch, 2012-12-06 Specification and transformation of programs is short for a methodology of software development where from a formal specification of a problem to be solved programs correctly solving that problem are constructed by stepwise application of formal semantics preserving transformation rules The approach considers programming as a formal activity Consequently it requires some mathematical maturity and above all the will to try something new A somewhat experienced programmer or a third or fourth year student in computer science should be able to master most of this material at least this is the level I have aimed at This book is primarily intended as a general introductory textbook on transformational methodology As with any methodology reading and understanding is necessary but not sufficient Therefore most of the chapters contain a set of exercises for practising as homework Solutions to these exercises exist and can in principle be obtained at nominal cost from the author upon request on appropriate letterhead In addition the book also can be seen as a comprehensive account of the particular transformational methodology developed within the Munich CIP project

The Science of Programming David Gries, 2012-12-06 Describes basic programming principles and their step by step applications Numerous examples are included **String-Rewriting Systems** Ronald V. Book, Friedrich Otto, 2012-12-06 The subject of this book is string rewriting systems. It is generally accepted that string rewriting was first introduced by Axel Thue in the early part of this century. In the 1960 s and early 1970 s it received renewed attention due to interest in formal language theory. In the 1980 s and 1990 s it has received more interest since it can be viewed as a special case of term

rewriting a subject that has become important in the study of automated deduction Today string rewriting is studied by researchers in theoretical computer science and also by researchers interested in the foundations of artificial intelligence A sketch of the way that the subject has developed is contained in Chapter 0 and the reader is advised to begin with that chapter Both authors have been active in the field and have lectured on the subject in several universities Lecture notes have been produced and dis tributed This monograph is a result of revising and rewriting those notes It represents an attempt by the authors to present the concepts that the authors consider to be most fundamental and to gather together the most useful results in such a way that they can be understood and used in studies relating to more general rewriting to automated deduction and to algo rithmic problems of algebraic structures This monograph is written for independent study by researchers in the oretical computer science or in the foundations of artificial intelligence **STACS 88** Robert Cori, Martin Wirsing, 1988-01-27 This volume contains the presentations of the Fifth Symposium on Theoretical Aspects of Computer Science STACS 88 held at the University of Bordeaux February 11 13 1988 In addition to papers presented in the regular program the volume contains abstracts of software systems demonstrations which were included in this conference series in order to show applications of research results in theoretical computer science. The papers are grouped into the following thematic sections algorithms complexity formal languages rewriting systems and abstract data types graph grammars distributed algorithms geometrical algorithms trace languages semantics of parallelism Algorithmic Algebra Bhubaneswar Mishra, 2012-12-06 Algorithmic Algebra studies some of the main algorithmic tools of computer algebra covering such topics as Gr bner bases characteristic sets resultants and semialgebraic sets The main purpose of the book is to acquaint advanced undergraduate and graduate students in computer science engineering and mathematics with the algorithmic ideas in computer algebra so that they could do research in computational algebra or understand the algorithms underlying many popular symbolic computational systems Mathematica Maple or Axiom for instance Also researchers in robotics solid modeling computational geometry and automated theorem proving community may find it useful as symbolic algebraic techniques have begun to play an important role in these areas The book while being self contained is written at an advanced level and deals with the subject at an appropriate depth The book is accessible to computer science students with no previous algebraic training Some mathematical readers on the other hand may find it interesting to see how algorithmic constructions have been used to provide fresh proofs for some classical theorems. The book also contains a large number of exercises with solutions to selected exercises thus making it ideal as a textbook or for self study **VLSI Placement and** Routing: The PI Project Alan T. Sherman, 2012-12-06 This book provides a superb introduction to and overview of the MIT PI System for custom VLSI placement and routing Alan Sher man has done an excellent job of collecting and clearly presenting material that was previously available only in various theses confer ence papers and memoranda He has provided here a balanced and comprehensive presentation of the key ideas and techniques used in PI discussing part of his own Ph D

work primarily on the place ment problem in the context of the overall design of PI and the contributions of the many other PI team members I began the PI Project in 1981 after learning first hand how difficult it is to manually place modules and route interconnections in a custom VLSI chip In 1980 Adi Shamir Leonard Adleman and I designed a custom VLSI chip for performing RSA encryption decryption 226 I became fascinated with the combinatorial and algorithmic questions arising in placement and routing and be gan active research in these areas The PI Project was started in the belief that many of the most interesting research issues would arise during an actual implementation effort and secondarily in the hope that a practically useful tool might result The belief was well founded but I had underestimated the difficulty of building a large easily used software tool for a complex domain the PI soft ware should be considered as a prototype implementation validating the design choices made A Practical Theory of Programming Eric C.R. Hehner, 2012-09-08 There are several theories of programming The first usable theory often called Hoare's Logic is still probably the most widely known In it a specification is a pair of predicates a precondition and postcondition these and all technical terms will be defined in due course Another popular and closely related theory by Dijkstra uses the weakest precondition predicate transformer which is a function from programs and postconditions to preconditions lones s Vienna Development Method has been used to advantage in some industries in it a specification is a pair of predicates as in Hoare's Logic but the second predicate is a relation Temporal Logic is yet another formalism that introduces some special operators and quantifiers to describe some aspects of computation The theory in this book is simpler than any of those just mentioned In it a specification is just a boolean expression Refinement is just ordinary implication. This theory is also more general than those just mentioned applying to both terminating and nonterminating computation to both sequential and parallel computation to both stand alone and interactive computation And it includes time bounds both for algorithm classification and for tightly constrained real time applications

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