

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

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**METHODS  
AND APPLICATIONS  
OF ERROR-FREE  
COMPUTATION**

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**R.T. Gregory  
E.V. Krishnamurthy**



Springer-Verlag  
New York Berlin Heidelberg Tokyo

# Methods Applications Of Error Free Computation

**Vangipuram Lakshmikantham, Syamal  
Kumar Sen**

## **Methods Applications Of Error Free Computation:**

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 computation 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 mathematically equivalent to those same arithmetic operations using the corresponding rational numbers as operands Finite segment  $p$  adic arithmetic shares with residue arithmetic the property that it is free of rounding errors *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 polynomial 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 considered **A Method for and an Application of Error-free**

**Computation** Robert Todd Gregory, 1981 **Numerical Analysis: Historical Developments in the 20th Century** C. Brezinski, L. Wuytack, 2001-11-30 Numerical analysis has witnessed many significant developments in the 20th century This book brings together 16 papers dealing with historical developments survey papers and papers on recent trends in selected areas of numerical analysis such as approximation and interpolation solution of linear systems and eigenvalue problems iterative methods quadrature rules solution of ordinary partial and integral equations The papers are reprinted from the 7

volume project of the Journal of Computational and Applied Mathematics on homepage [sac.cam.ac.uk/na2000/index.html](#) Numerical Analysis 2000 An introductory survey paper deals with the history of the first courses on numerical analysis in several countries and with the landmarks in the development of important algorithms and concepts in the field

[Robust and Error-Free Geometric Computing](#) Dave Eberly, 2021-02-27 This is a how to book for solving geometric problems robustly or error free in actual practice The contents and accompanying source code are based on the feature requests and feedback received from industry professionals and academics who want both the descriptions and source code for implementations of geometric algorithms The book provides a framework for geometric computing using several arithmetic systems and describes how to select the appropriate system for the problem at hand

**Key Features** A framework of arithmetic systems that can be applied to many geometric algorithms to obtain robust or error free implementations Detailed derivations for algorithms that lead to implementable code Teaching the readers how to use the book concepts in deriving algorithms in their fields of application The Geometric Tools Library a repository of well tested code at the Geometric Tools website <https://www.geometrictools.com> that implements the book concepts

*Computational Error and Complexity in Science and Engineering* Vangipuram Lakshmikantham, Syamal Kumar Sen, 2005-03-04 The book *Computational Error and Complexity in Science and Engineering* pervades all the science and engineering disciplines where computation occurs Scientific and engineering computation happens to be the interface between the mathematical model problem and the real world application One needs to obtain good quality numerical values for any real world implementation Just mathematical quantities symbols are of no use to engineers technologists Computational complexity of the numerical method to solve the mathematical model also computed along with the solution on the other hand will tell us how much computation computational effort has been spent to achieve that quality of result Anyone who wants the specified physical problem to be solved has every right to know the quality of the solution as well as the resources spent for the solution The computed error as well as the complexity provide the scientific convincing answer to these questions Specifically some of the disciplines in which the book will be readily useful are

- i Computational Mathematics
- ii Applied Mathematics

Computational Engineering Numerical and Computational Physics Simulation and Modelling Operations Research both deterministic and stochastic Computing Methodologies Computer Applications and Numerical Methods in Engineering

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bounds Provides a comprehensive up to date bibliography after each chapter **Dr. Dobb's Journal of Software Tools for the Professional Programmer**, 1987 **Proceedings of the Statistical Computing Section** American Statistical Association. Statistical Computing Section, 1994 **Reviews in Numerical Analysis, 1980-86**, 1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5 *Current Index to Statistics, Applications, Methods and Theory*, 1995 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Bulletin mathématique de la Société des sciences mathématiques de la République Socialiste de Roumanie**, 1986 Bulletin mathématique de la Société des sciences mathématiques de la République socialiste de Roumanie Societatea de Științe Matematice din Republica Socialistă România, 1986 *Computer Algebra in Scientific Computing* Victor Grigor'evich Ganzha, Ernst Mayr, 2001 Jets A Maple Package for Formal Differential Geometry Computing Stratifications of Quotients of Finite Groups and an Application to Shape Memory Alloy A MuPAD Library for Differential Equation Algebraic Identification Algorithm and Application to Dynamical Systems Cooperation Between a Dynamic Geometry Environment and a Computer Algebra System for Geometric Discovery On the Stability of Steady Motions of a Solar Sail Satellite Application of Computer Algebra for Investigation of a Group Properties of the Navier Stokes Equations for Compressible Viscous Heat Conducting Gas Mathematica and Nilpotent Lie Superalgebras Neighborhoods of an Ordinary Linear Differential Equation Invariants of Finite Groups and Involutive Division Symbolic Computation and Boundary Conditions for the Wave Equation Parametric Systems of Linear Congruences Bifurcation Analysis of Low Resonant Case of the Generalized Henon Heiles System An Involutive Reduction Method to Find Invariant Solutions for Partial Differential Equations Recurrence Functions and Numerical Characteristics of Graphs A New Combinatorial Algorithm for Large Markov Chains GROOME Tool Supported Graphical Object Oriented Modelling for Computer Algebra and Scientific Computing Construction of Janet Bases I Monomial Bases Construction of Janet Bases II Polynomial Bases Low Dimensional Quasi Filiform Lie Algebras with Great Length Algebraic Methods for Sectioning Parametric Surfaces The Methods of Computer Algebra and the Arnold Moser Theorem Symbolic Algorithms of Algebraic Perturbation Theory Hydrogen Atom in the Field of Distant Charge Perturbation versus Differentiation Indices Employment of the Gr bner Bases in Analysis of Systems Having Algebraic First Integrals Coalgebra Structures on 1 Homological Models for Commutative Differential Graded Algebras Conservative Finite Difference Schemes for Cosymmetric Systems A Mathematica Solver for Two Point Singularly Perturbed Boundary Value Problems A New Algorithm for Computing Cohomologies of Lie Superalgebras Parallel Computing with Mathematica Solution of Systems of Linear Diophantine Equations SYMOPT Symbolic Parametric Mathematical Programming Representing Graph Properties by Polynomial Ideals

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