

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  
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# Methods Applications Of Error Free Computation

**Yi-Tong Ma**



## **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

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**A Method for and an Application of Error-free Computation** Robert Todd Gregory, 1981 *Dr. Dobbs's Journal of Software Tools for the Professional Programmer*, 1987 *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      Design and Implementation of Symbolic Computation Systems ,1993      *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      **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

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