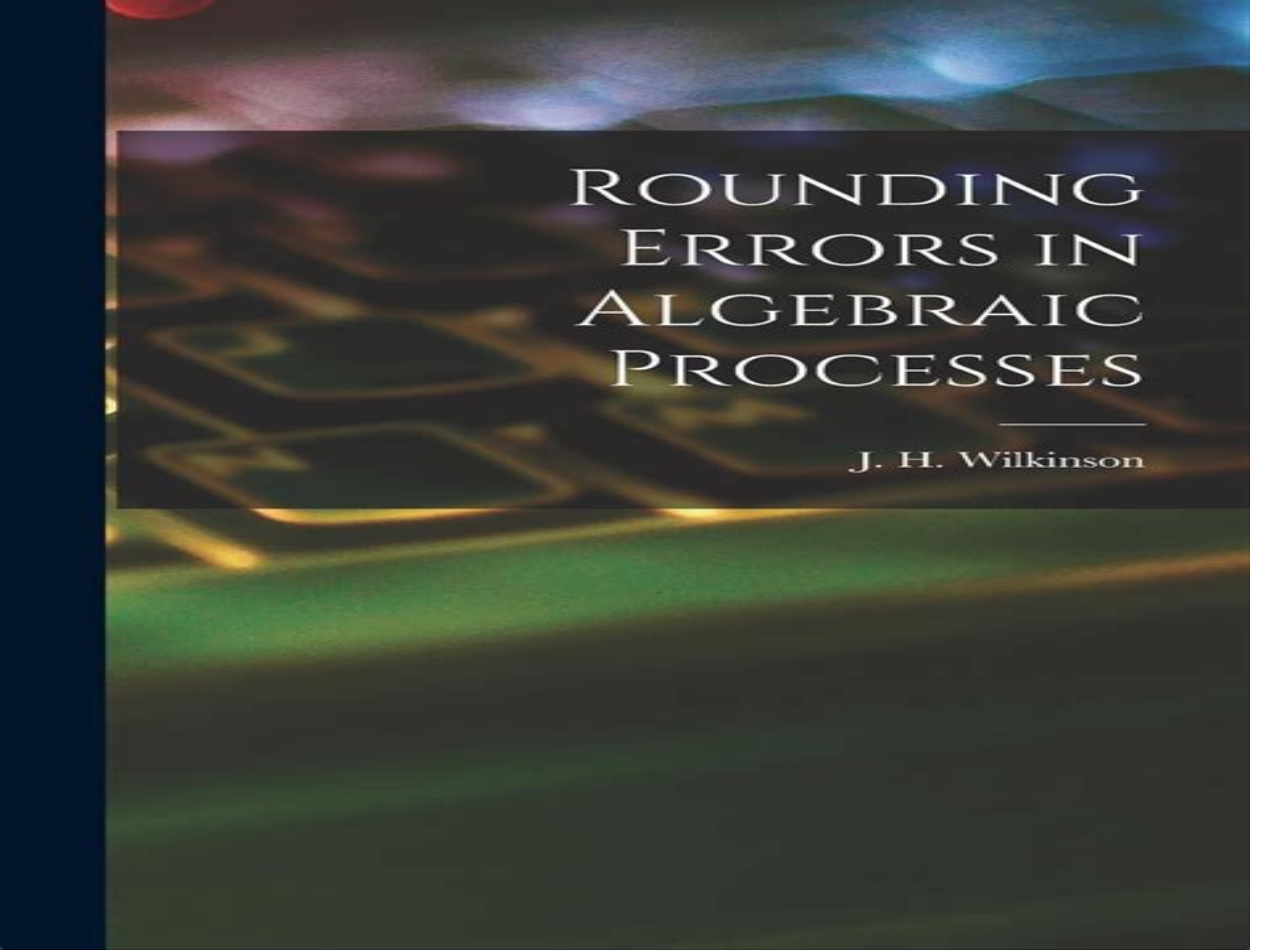




ROUNDING ERRORS IN ALGEBRAIC PROCESSES

J. H. Wilkinson

Rounding Errors In Algebraic Processes

James Hardy Wilkinson



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The Computer from Pascal to von Neumann Herman H. Goldstine, 2008-09-02 In 1942 Lt Herman H Goldstine a former mathematics professor was stationed at the Moore School of Electrical Engineering at the University of Pennsylvania It was there that he assisted in the creation of the ENIAC the first electronic digital computer The ENIAC was operational in 1945 but plans for a new computer were already underway The principal source of ideas for the new computer was John von Neumann who became Goldstine s chief collaborator Together they developed EDVAC successor to ENIAC After World War II at the Institute for Advanced Study they built what was to become the prototype of the present day computer Herman Goldstine writes as both historian and scientist in this first examination of the development of computing machinery from the seventeenth century through the early 1950s His personal involvement lends a special authenticity to his narrative as he sprinkles anecdotes and stories liberally through his text

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techniques Introduction to Numerical Analysis J. Stoer, R. Bulirsch, 2013-03-09 On the occasion of this new edition the text was enlarged by several new sections Two sections on B splines and their computation were added to the chapter on spline functions Due to their special properties their flexibility and the availability of well tested programs for their computation B splines play an important role in many applications Also the authors followed suggestions by many readers to supplement the chapter on elimination methods with a section dealing with the solution of large sparse systems of linear equations Even though such systems are usually solved by iterative methods the realm of elimination methods has been widely extended due to powerful techniques for handling sparse matrices We will explain some of these techniques in connection with the Cholesky algorithm for solving positive definite linear systems The chapter on eigenvalue problems was enlarged by a section on the Lanczos algorithm the sections on the LR and QR algorithm were rewritten and now contain a description of implicit shift techniques In order to some extent take into account the progress in the area of ordinary differential equations a new section on implicit differential equations and differential algebraic systems was added and the section on stiff differential equations was updated by describing further methods to solve such equations **Canadian Mathematical Bulletin** ,1965 *Numerical Methods in Matrix Computations* Åke Björck, 2014-10-07 Matrix algorithms are at the core of scientific computing and are indispensable tools in most applications in engineering This book offers a comprehensive and up to date treatment of modern methods in matrix computation It uses a unified approach to direct and iterative methods for linear systems least squares and eigenvalue problems A thorough analysis of the stability accuracy and complexity of the treated methods is given Numerical Methods in Matrix Computations is suitable for use in courses on scientific computing and applied technical areas at advanced undergraduate and graduate level A large bibliography is provided which includes both historical and review papers as well as recent research papers This makes the book useful also as a reference and guide to further study and research work

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