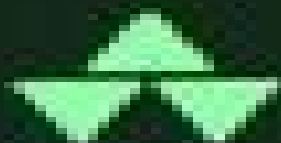


numerical algorithms: origins and applications

bruce w. arden

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Numerical Algorithms Origins And Applications

Herbert Koenig



Numerical Algorithms Origins And Applications:

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Index for Numerical Algebra Alston Scott Householder,1972 *Structural Building Response Review* ,1980 **Origin of Turbulence** Hua-Shu Dou,2022-03-25 This book presents the new discovery of the origin of turbulence from Navier Stokes equations The fully developed turbulence is found to be composed of singularities of flow field The mechanisms of flow stability and turbulent transition are described using the energy gradient theory which states all the flow instability and breakdown resulted from the gradient of the total mechanical energy normal to the flow direction This approach is universal for flow instability in Newtonian flow and non Newtonian flow The theory has been used to solve several problems such as plane and pipe Poiseuille flows plane Couette flow Taylor Couette flow flows in straight coaxial annulus flows in curved pipes and ducts thermal convection flow viscoelastic flow and magnet fluid flow etc The theory is in agreement with results from numerical simulations and experiments The analytical method used in this book is novel and is different from the traditional approaches This book includes the fundamental basics of flow stability and turbulent transition the essentials of the energy gradient theory and the applications of the theory to several practical problems This book is suitable for researchers and graduate students

Numerical Methods for Roots of Polynomials - Part II J.M. McNamee,V.Y. Pan,2013-07-19 The zeros of a polynomial can be readily recovered from its linear factors The linear factors can be approximated by first splitting a polynomial numerically into the product of its two nonconstant factors and then recursively splitting every computed nonlinear factor in similar fashion For both the worst and average case inputs the resulting algorithms solve the polynomial factorization and root finding problems within fixed sufficiently small error bounds by using nearly optimal arithmetic and Boolean time that is using nearly optimal numbers of arithmetic and bitwise operations in the case of a polynomial with integer coefficients and simple roots we can immediately extend factorization to root isolation that is to computing disjoint covering discs one for every root on the complex plane The presented algorithms compute highly accurate approximations to all roots nearly as fast as one reads the input coefficients Furthermore our algorithms allow processor efficient parallel acceleration which enables root finding factorization and root isolation in polylogarithmic arithmetic and Boolean time The

chapter thoroughly covers the design and analysis of these algorithms including auxiliary techniques of independent interest At the end we compare the presented polynomial root finders with alternative ones in particular with the popular algorithms adopted by users based on supporting empirical information We also comment on some promising directions to further progress Structural Building Response Review John J. Healey, Lawrence Livermore Laboratory, A. K. Singh, 1980

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