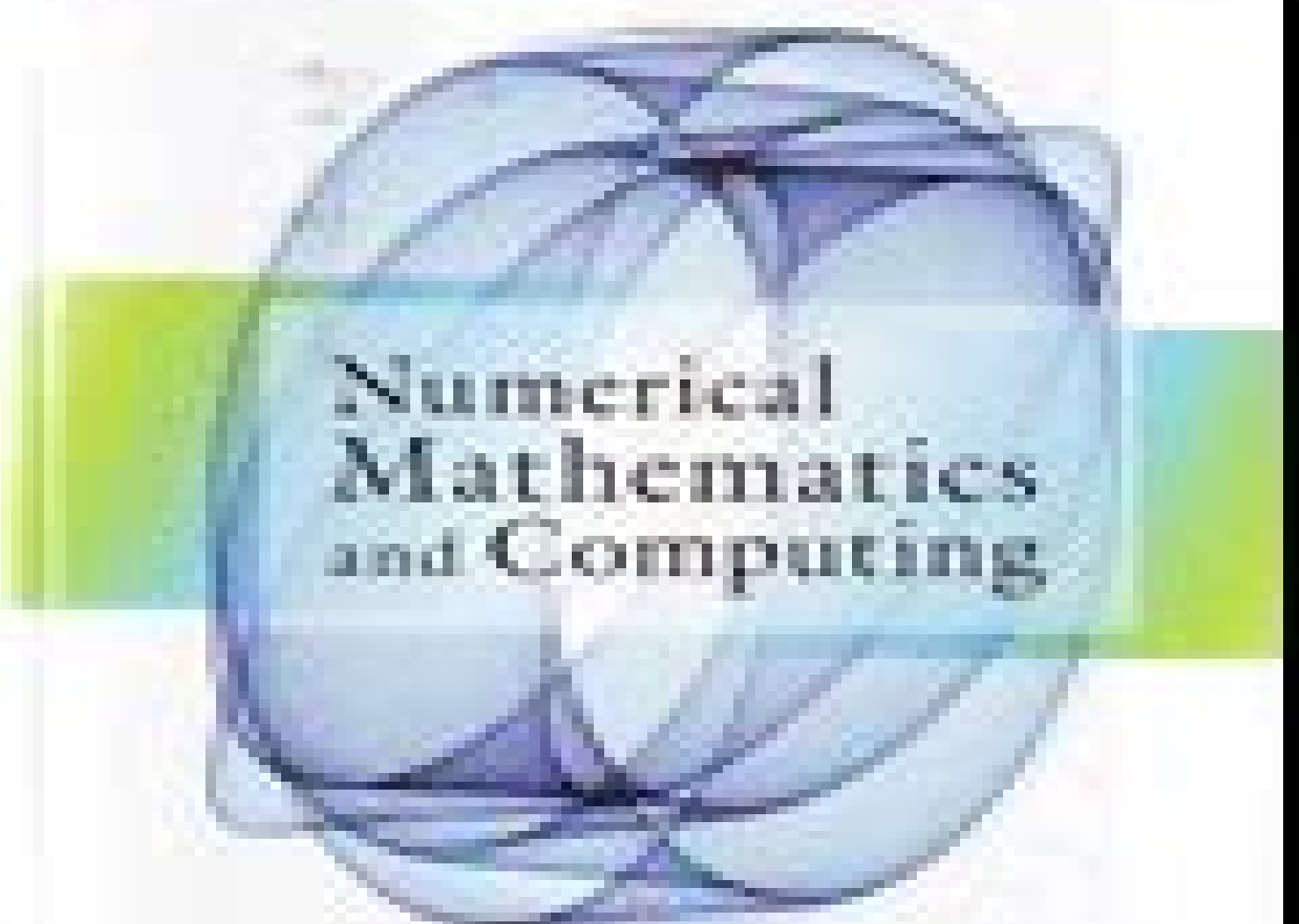




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Quarteroni, Riccardo Sacco, Fausto Saleri, 2017-01-26 Numerical mathematics is the branch of mathematics that proposes develops analyzes and applies methods from scientific computing to several fields including analysis linear algebra geometry approximation theory functional equations optimization and differential equations Other disciplines such as physics the natural and biological sciences engineering and economics and the financial sciences frequently give rise to problems that need scientific computing for their solutions As such numerical mathematics is the crossroad of several disciplines of great relevance in modern applied sciences and can become a crucial tool for their qualitative and quantitative analysis One of the purposes of this book is to provide the mathematical foundations of numerical methods to analyze their basic theoretical properties stability accuracy computational complexity and demonstrate their performances on examples and counterexamples which outline their pros and cons This is done using the MATLAB software environment which is user friendly and widely adopted Within any specific class of problems the most appropriate scientific computing algorithms are reviewed their theoretical analyses are carried out and the expected results are verified on a MATLAB computer implementation Every chapter is supplied with examples exercises and applications of the discussed theory to the solution of real life problems This book is addressed to senior undergraduate and graduate students with particular focus on degree courses in Engineering Mathematics Physics and Computer Sciences The attention which is paid to the applications and the related development of software makes it valuable also for researchers and users of scientific computing in a large variety of professional fields

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Guide to Scientific Computing Peter R. Turner,2000 Guide to Scientific Computing by Peter Turner is a gentle and sympathetic introduction to many of the problems of scientific computing and the wide variety of methods used for their solutions

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Numerical Analysis in Modern Scientific Computing Andreas Hohmann,Peter Deuflhard,2003-01-14 This book introduces the main topics of modern numerical analysis sequence of linear equations error analysis least squares nonlinear systems symmetric eigenvalue problems three term recursions interpolation and approximation large systems and numerical integrations The presentation draws on geometrical intuition wherever appropriate and is supported by a large number of illustrations exercises and examples

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