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Robert Dautray,Jacques-Louis Lions

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   Numerical Mathematical Analysis James Blaine Scarborough,1955   Numerical Mathematical Analysis James B. Scarborough,1946   **Numerical Analysis** David Ronald Kincaid,Elliott Ward Cheney,2009 This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing The subject of numerical analysis is treated from a mathematical point of view offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs In an engaging and informal style the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs Algorithms are presented in pseudocode so that students can immediately write computer programs in standard languages or use interactive mathematical software packages This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level   *Numerical Analysis* M. Schatzman,2002 Numerical analysis explains why numerical computations work or fail This book is divided into four parts Part I starts Part I starts with a guided tour of floating number systems and machine arithmetic The exponential and the logarithm are constructed from scratch to present a new point of view on questions well known to the reader and the needed knowledge of linear algebra is summarized Part II starts with polynomial approximation polynomial interpolation mean square approximation splines It then deals with Fourier series providing the trigonometric version of least square approximations and one of the most important numerical algorithms the fast Fourier transform Any scientific computation program spends most of its time solving linear systems or approximating the solution of linear systems even when trying to solve non linear systems Part III is therefore about numerical linear algebra while Part IV treats a selection of non linear or complex problems resolution of linear equations and systems ordinary differential equations single step and multi step schemes and an introduction to partial differential equations The book has been written having in mind the advanced undergraduate students in mathematics who are interested in the spice and spirit of numerical analysis The book does not assume previous knowledge of numerical methods It will also be useful to scientists and engineers wishing to learn what mathematics has to say about the reason why their numerical methods work or fail   Mathematical Analysis and Numerical Methods for Science and Technology Robert Dautray,Jacques-Louis Lions,1999-11-23 The advent of high speed computers has made it possible for the first time to calculate values from models accurately and rapidly Researchers and engineers thus have a crucial means of using numerical results to modify and adapt arguments and experiments along the way Every facet of technical and industrial activity has been affected by these developments The objective of the present work is to compile the mathematical knowledge required by researchers in mechanics physics engineering chemistry and other branches of application of mathematics for the theoretical and numerical resolution of physical models on computers Since the publication in 1924 of the Methoden der mathematischen Physik by Courant and Hilbert there has been no other comprehensive and up to date publication presenting

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including monotone operators applications of Schauder s theorem matrices and boundary value problems of monotone kind discrete Chebyshev approximation and exchange methods and approximation of functions The publication is a valuable source of data for mathematicians and researchers interested in functional analysis and numerical mathematics

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