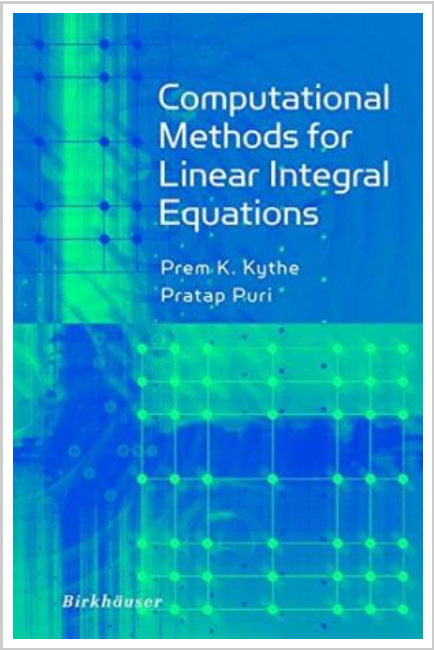

Computational Methods for Linear Integral Equations

By Prem Kythe

BirkhÃ¤user. Hardcover. Book Condition: New. Hardcover. 528 pages. Dimensions: 9.5in. x 6.2in. x 1.1in.Integral equations have wide applications in various fields, including continuum mechanics, potential theory, geophysics, electricity and magnetism, kinetic theory of gases, hereditary phenomena in physics and biology, renewal theory, quantum mechanics, radiation, optimization, optimal control systems, communication theory, mathematical economics, population genetics, queueing theory, and medicine. Computational Methods for Linear Integral Equations presents basic theoretical material that deals with numerical analysis, convergence, error estimates, and accuracy. The unique computational aspect leads the reader from theoretical and practical problems all the way through to computation with hands-on guidance for input files and the execution of computer programs. Features: Offers all supporting Mathematicafiles related to the book via the Internet at the authors Web sites: www. math. uno. edufacpkythe. html or www. math. uno. edufacppuri. html Contains identification codes for problems, related methods, and computer programs that are cross-referenced throughout the book to make the connections easy to understand Illustrates a how-to approach to computational work in the development of algorithms, construction of input files, timing, and accuracy analysis Covers linear integral equations of Fredholm and Volterra types of the first and second kinds as well as associated singular...

Reviews

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