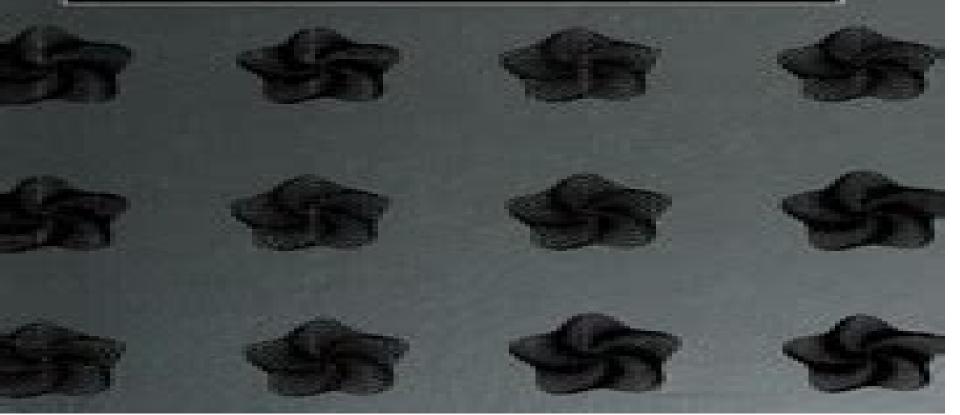


NUMERICAL METHODS AND SCIENTIFIC COMPUTING USING SOFTWARE LIBRARIES FOR PROBLEM SOLVING

NORBERT KÖCKLER



Numerical Methods And Scientific Computing Using Software Libraries For Problem Solving

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researchers and engi neers have access to computing power and software that can solve numerical problems which are not fully understood in terms of existing mathematical theory Thus computational sciences must in many respects be viewed as experimental disciplines As a consequence there is a demand for high quality flexible software that allows and even encourages experimentation with alternative numerical strategies and mathematical models Extensibil ity is then a key issue the software must provide an efficient environment for incorporation of new methods and models that will be required in fu ture problem scenarios The development of such kind of flexible software is a challenging and expensive task One way to achieve these goals is to in vest much work in the design and implementation of generic software tools which can be used in a wide range of application fields In order to provide a forum where researchers could present and discuss their contributions to the described development an International Work shop on Modern Software Tools for Scientific Computing was arranged in Oslo Norway September 16 18 1996 This workshop informally referred to as Sci Tools 96 was a collaboration between SINTEF Applied Mathematics and the Departments of Informatics and Mathematics at the University Numerical Methods J. Douglas Faires, Richard L. Burden, 1998 This text emphasizes the intelligent application of of Oslo approximation techniques to the type of problems that commonly occur in engineering and the physical sciences The authors provide a sophisticated introduction to various appropriate approximation techniques they show students why the methods work what type of errors to expect and when an application might lead to difficulties and they provide information about the availability of high quality software for numerical approximation routines. The techniques covered in this text are essentially the same as those covered in the Sixth Edition of these authors top selling Numerical Analysis text but the emphasis is much different In Numerical Methods Second Edition full mathematical justifications are provided only if they are concise and add to the understanding of the methods The emphasis is placed on describing each technique from an implementation standpoint and on convincing the student that the method is reasonable both mathematically and computationally

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