

BOOK REVIEW

SOLVING LARGE-SCALE PROBLEMS IN MECHANICS: THE DEVELOPMENT AND APPLICATION OF COMPUTATIONAL SOLUTION METHODS

(Ed. Papadimitrakis (Editor), Wiley, Chichester, 1993, 472 pp, ISBN 0-471-9386-7)

This monograph contains 10 chapters dealing with the recent advances in solution techniques for large sets of simultaneous algebraic equations, and also includes a chapter on automatic finite element mesh generation. Efficient solution schemes and computer applications of high-performance computers for solving large-scale problems in mathematical physics are the two general topics in most of the chapters.

The first chapter 'Solving Large Scale Linear Problems in Solids and Structural Mechanics', reviews iterative equation solution techniques based on the conjugate gradient method and the Lanczos method. A substantial part is dedicated to a discussion of various preconditioning techniques, where it is shown that preconditioners can be used to increase the efficiency of iterative solvers significantly.

The second chapter is also about solving large banded $n \times n$ systems in mechanics. The authors discuss Lanczos and conjugate gradient algorithms with different preconditioners. The efficiency of the algorithms is tested on an incompressible fluid flow problem and a plate bending problem. The results are tabulated graphically and the algorithms are presented succinctly in tabular forms.

The third chapter, 'Adaptive Iterative Solvers in Finite Elements' presents a new iterative solution technique for systems with large degrees of freedom. The approach advocated is a combination of direct and iterative methods. Conjugate gradients preconditioned by an incomplete version of symmetric decomposition is presented. The results of its application to the previous finite element method for three-dimensional elasticity problems are presented.

Chapter 4 concentrates on solving large banded, symmetric equations. The author discusses recent advances in the direct and iterative solutions of the algebraic equations resulting from the multi-zone boundary element analysis. Static condensation has been shown to reduce the computational burden associated with matrix fill-in dramatically. Algorithms based on the unsymmetric conjugate gradient and the generalized minimum residual methods are examined and their performances are reported.

Chapter 5 presents findings from a research project on the solution of large eigenvalue problems. The main objective of the study is to find the leftmost eigen-pairs for banded sparse matrices. The accelerated conjugate gradient method for the extraction of the leftmost part of the eigen spectrum is described along with a discussion of effective preconditioners. The Lanczos method is then presented in the context of a sparse finite element matrix. Finally, both methods are applied to five eigenvalue problems.

Benefits of the Lanczos method for the eigenvalue problem using high performance computers are discussed in chapter six. A brief discussion of the theory of the Lanczos method is followed by an analysis of the implementation on parallel vector processors. Solution times for two structural engineering problems on CONVEX, CRAY-2 and CRAY Y-MP are compared.

Chapter 7 is about solving large non-linear problems in solid and structural mechanics. A survey of a family of solution procedures for the non-linear finite element analysis based on quasi-Newton methods with reduced storage is presented. The chapter also includes three benchmark

Solving Large Scale Problems In Mechanics

B. H. V. Topping, Manolis Papadrakakis

Solving Large Scale Problems In Mechanics:

Solving Large-scale Problems in Mechanics Manolis Papadrakakis, 1993-06-01 Solving Large Scale Problems in Mechanics The Development and Application of Computational Solution Methods M Papadrakakis National Technical University of Athens Greece This book consists of a number of self contained chapters written by internationally acclaimed leading researchers It deals with the application of computational solution methods for handling large scale problems in mechanics The techniques explored here are applicable to any problem in the field where available computing power is liable to be stretched to its limit Emphasis is given to computational procedures suitable to computing systems with vector and parallel architectures Each chapter proceeds logically first with theory then with algorithmic computational analysis and finally applications to real problems This is a comprehensive state of the art treatment of theory and practice illustrated by extensive numerical examples which should serve as an essential reference book on the subject Solving Computationally Expensive Engineering Problems Slawomir Koziel, Leifur Leifsson, Xin-She Yang, 2014-10-01 Computational complexity is a serious bottleneck for the design process in virtually any engineering area While migration from prototyping and experimental based design validation to verification using computer simulation models is inevitable and has a number of advantages high computational costs of accurate high fidelity simulations can be a major issue that slows down the development of computer aided design methodologies particularly those exploiting automated design improvement procedures e g numerical optimization The continuous increase of available computational resources does not always translate into shortening of the design cycle because of the growing demand for higher accuracy and necessity to simulate larger and more complex systems Accurate simulation of a single design of a given system may be as long as several hours days or even weeks which often makes design automation using conventional methods impractical or even prohibitive Additional problems include numerical noise often present in the simulation data possible presence of multiple locally optimum designs as well as multiple conflicting objectives In this edited book various techniques that can alleviate solving computationally expensive engineering design problems are presented One of the most promising approaches is the use of fast replacement models so called surrogates that reliably represent the expensive simulation based model of the system device of interest but they are much cheaper and analytically tractable Here a group of international experts summarize recent developments in the area and demonstrate applications in various disciplines of engineering and science The main purpose of the work is to provide the basic concepts and formulations of the surrogate based modeling and optimization paradigm as well as discuss relevant modeling techniques optimization algorithms and design procedures Therefore this book should be useful to researchers and engineers from any discipline where computationally heavy simulations are used on daily basis in the design process *Wiley Series in Solving Large-scale Problems in Mechanics*, 19?? High Performance Computing in Science and Engineering Tomáš Kozubek, Martin Čermák, Petr Tichý, Radim Blaheta, Jakub Šístek, Dalibor

Lukáš, Jiří Jaroš, 2018-07-16 This book constitutes the thoroughly refereed post conference proceedings of the Third International Conference on High Performance Computing in Science and Engineering HPCSE 2017 held in Karolinka Czech Republic in May 2017 The 15 papers presented in this volume were carefully reviewed and selected from 20 submissions The conference provides an international forum for exchanging ideas among researchers involved in scientific and parallel computing including theory and applications as well as applied and computational mathematics The focus of HPCSE 2017 was on models algorithms and software tools which facilitate efficient and convenient utilization of modern parallel and distributed computing architectures as well as on large scale applications *Surface Effects and Contact Mechanics* X J. T.

M. De Hosson, C. A. Brebbia, 2011 Contact mechanics and surface effects as well as their interaction are important in modern engineering The life and performance of structural components is affected by surface conditions such as wear corrosion and high cycle fatigue Surface treatments that address contact conditions can reduce costs by extending the life of components These are the subjects of a biennial conference first held in 1993 the papers from the latest of which are collected in this volume The book discusses Computer simulation Surface modification Surface treatments Surface problems in contact mechanics Contact mechanics Applications and case studies Indentation and hardness Thick and thin coatings Corrosion problems Nano characterisation Test methodology Multiscale experiments and modelling and Fracture fatigue and mechanics **24th European Symposium on Computer Aided Process Engineering**, 2014-06-20 The 24th European Symposium on Computer Aided Process Engineering creates an international forum where scientific and industrial contributions of computer aided techniques are presented with applications in process modeling and simulation process synthesis and design operation and process optimization The organizers have broadened the boundaries of Process Systems Engineering by inviting contributions at different scales of modeling and demonstrating vertical and horizontal integration Contributions range from applications at the molecular level to the strategic level of the supply chain and sustainable development They cover major classical themes at the same time exploring a new range of applications that address the production of renewable forms of energy environmental footprints and sustainable use of resources and water

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