

CONTENTS

CONTRIBUTORS	vii
PREFACE	ix
Nonlinear Algebraic Equations in Continuum Mechanics <i>William F. Ames</i>	1
The Numerical Solution of Quasilinear Elliptic Equations <i>Gunter H. Meyer</i>	27
Nonlinear Systems in Semi-Infinite Programming <i>Sven-Åke Gustafson</i>	63
On the Solution of Large Systems of Linear Algebraic Equations with Sparse, Positive Definite Matrices <i>David M. Young, Jr.</i>	101
Some Computational Techniques for the Nonlinear Least Squares Problem <i>John E. Dennis, Jr.</i>	157
The Problem of Minimizing Nonlinear Functionals I. Least Squares <i>Norman M. Steen and George D. Byrne</i>	185
Quasi-Newton, or Modification Methods <i>Charles G. Broyden</i>	241
Computer Oriented Algorithms for Solving Systems of Simultaneous Nonlinear Algebraic Equations <i>Kenneth M. Brown</i>	281
On the Choice of Relaxation Parameters for Nonlinear Problems <i>Samuel Schechter</i>	349
The Contractor Theory of Solving Equations <i>Mieczyslaw Altman</i>	373
SUBJECT INDEX	415