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Acknowledgements; References; A Kind of Riemann Boundary Value Problem for Triharmonic Functions in Clifford Analysis L.F. Gu; 1. Introduction and preliminaries; 2. Some properties for triharmonic functions; 3. Riemann boundary value problem for triharmonic functions; 4. Existence of solutions for Riemann boundary value problem for triharmonic functions; References; A New Dynamical Systems Method for Nonlinear Operator Equations X.J. Luo, F.C. Li and S.H. Yang

I. IntroductionII. DSM for nonlinear equations; III. Stability of the solution; References; A Class of Integral Inequality and Application W.S. Wang; 1. Introduction; 2. Main result; 3. Application; References; An Efficient Spectral Boundary Integral Equation Method for the Simulation of Earthquake Rupture Problems W.S. Wang and B. W. Zhang; 1. Introduction; 2. Formulation and numerical implementation; 3. Friction laws and spatial discretization; 4. Symplectic schemes of evolution time step; 5. Numerical experiments; 6. Conclusions; Acknowledgements; References

High-Frequency Asymptotics for the Modified Helmholtz Equation in a Half-Plane H.M. Huang1. Introduction; 2. The integral representation for the solution; 3. Asymptotic approximations; Acknowledgement; References; An Inverse Boundary Value Problem Involving Filtration for Elliptic Systems of Equations Z.L. Xu and L. Yan; 1. Introduction; 2. Problem transformation; 3. The existence and uniqueness of solution for problem B; References; Fixed Point Theorems of Contractive Mapping in Extended Cone Metric Spaces H.P. Huang and X. Li; 1. Introduction; 2. Main results; 3. Applications; References
Positive Solutions of Singular Third-Order Three-Point Boundary Value Problems B. Q. Yan and X. Liu

Sommario/riassunto

In this volume, we report new results about various theories and methods of integral equation, boundary value problems for partial differential equations and functional equations, and integral operators including singular integral equations, applications of boundary value problems and integral equations to mechanics and physics, numerical methods of integral equations and boundary value problems, theories and methods for inverse problems of mathematical physics, Clifford analysis and related problems.

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