

Integral Methods In Science And Engineering

[DOWNLOAD HERE](#)

1;Contents;5 2;Preface;8 3;List of Contributors;10 4;1 Superconvergence of Projection Methods for Weakly Singular Integral Operators;15 5;2 On Acceleration of Spectral Computations for Integral Operators with Weakly Singular Kernels;22 6;3 Numerical Solution of Integral Equations in Solidification and Melting with Spherical Symmetry;30 7;4 An Analytic Solution for the Steady-State Two-Dimensional Advection Diffusion Model by the GITT Approach;39 8;5 Analytic Two-Dimensional Atmospheric Pollutant Dispersion Simulation by Double GITT;48 9;6 Transient Acoustic Radiation from a Thin Spherical Elastic Shell;58 10;7 The Eigenfrequencies and Mode Shapes of Drilling Masts;66 11;8 Layer Potentials in Dynamic Bending of Thermoelastic Plates;73 12;9 Direct Methods in the Theory of Thermoelastic Plates;84 13;10 The Dirichlet Problem for the Plane Deformation of a Thin Plate on an Elastic Foundation;91 14;11 Some Remarks on Homogenization in Perforated Domains;97 15;12 Dynamic Response of a Poroelastic Half-Space to Harmonic Line Tractions;106 16;13 Convexity Conditions and Uniqueness and Regularity of Equilibria in Nonlinear Elasticity;116 17;14 The Mathematical Modeling of Syringomyelia;126 18;15 A System Iterative Method for Solving First-Kind, Degraded Identity Operator Equations;133 19;16 Fast Numerical Integration Method Using Taylor Series;141 20;17 Boundary Integral Solution of the Two-Dimensional Fractional Diffusion Equation;147 21;18 About Traces, Extensions, and Co-Normal Derivative Operators on Lipschitz Domains;155 22;19 On the Extension of Divergence-Free Vector Fields Across Lipschitz Interfaces;167 23;20 Solutions of the Atmospheric Advection Diffusion Equation by the Laplace Transformation;177 24;21 On Quasimodes for Spectral Problems Arising in Vibrating Systems with Concentrated Masses;187 25;22 Two-Sided Estimates for Local Minimizers in Compressible Elasticity;197 26;23 Harmonic Oscillations in a Linear Theory of Antiplane Elasticity with Microstructure;207 27;24 Exterior Dirichlet and Neumann Problems for the Helmholtz Equation as Limits of Transmission Problems;213 28;25 Direct Boundary Element Method with Discretization of All Integral Operators;223 29;26 Reciprocity in Elastomechanics: Development of Explicit Results for Mixed Boundary Value Problems;233 30;27 Integral Equation Modeling of Electrostatic Interactions in Atomic Force Microscopy;243 31;28 Integral Representation for the Solution

of a Crack Problem Under Stretching Pressure in Plane Asymmetric Elasticity;253 32;29 Euler Bernoulli Beam with Energy Dissipation: Spectral Properties and Control;263 33;30 Correct Equilibrium Shape Equation of Axisymmetric Vesicles;272 34;31 Properties of Positive Solutions of the Falkner Skan Equation Arising in Boundary Layer Theory;282 35;32 Stabilization of a Four-Dimensional System under Real Noise Excitation;289 36;Index;298 EAN/ISBN : 9780817646714 Publisher(s): Springer, Berlin, Birkhäuser
Discussed keywords: Integralrechnung Format: ePub/PDF Author(s): Constanda, C. - Potapenko, S.

[DOWNLOAD HERE](#)

Similar manuals:

['Einführung In Die Integralrechnung' - Mathematik- Leistungskurs, Klassenstufe 12 - Ruben Loest](#)