

Boundary Integral And Singularity Methods For Linearized Viscous Flow

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Strength of Materials II: Deflection of Beams, Singularity Methods (10 of 19)

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This book presents a coherent introduction to boundary integral, boundary element and singularity methods for steady and unsteady flow at zero Reynolds number. The focus of the discussion is not only on the theoretical foundation, but also on the practical application and computer implementation.

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The methods are developed from first principles, alternative formulations are compared, a variety of configurations are addressed, the proper mathematical framework is discussed in the context of functional analysis and integral-equation-theory, and procedures of numerical solution in the context of the boundary element method are introduced.

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Boundary Integral and Singularity Methods for Linearized Viscous Flow (Cambridge Texts in Applied Mathematics Book 8) eBook: C. Pozrikidis: Amazon.co.uk: Kindle Store

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Boundary Integral and Singularity Methods for Linearized Viscous Flow C. Pozrikidis. The aim of this

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book is to bring together classical and recent developments in the particular field of Newtonian flow at low Reynolds numbers. The methods are developed from first principles, alternative formulations are compared, a variety of configurations ...

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Classical knowledge and recent developments in the field of boundary integral and singularity methods for steady and unsteady Stokes flow are reviewed. The general topics addressed are boundary integral equations, Green's functions, generalized boundary integral methods, flow due to interfaces, the boundary element method, and the singularity method.

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The authors present a new singular function boundary integral method for the numerical solution of problems with singularities which is based on approximation of the solution by the leading terms of the local asymptotic expansion. The essential boundary conditions are weakly enforced by means of appropriate Lagrange multipliers.

~~A singular function boundary integral method for the ...~~

1. Introduction. The boundary elements method (BEM) , , , , , has been used successfully in solution of various engineering problems. The basis of the BEM is the reduction of the governing partial differential equation of the given problem in boundary integral equations by means of the corresponding Green's theorem and its fundamental solution.

~~Calculation of 2D singular and near singular integrals of ...~~

The boundary element method (BEM) is a numerical computational method of solving linear partial differential equations which have been formulated as integral equations (i.e. in boundary integral form). including fluid mechanics, acoustics, electromagnetics (Method of Moments), fracture mechanics, and contact mechanics.

~~Boundary element method - Wikipedia~~

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The singular function boundary integral method (SFBIM), belongs to the class of Trefftz methods in which the singular coefficients are calcu-...

~~Analysis of the Singular Function Boundary Integral Method ...~~

The boundary integral equation discussed in section 2.3, provides us with a representation of a flow in terms of a dual distribution of a Green's function G and its associated stress tensor T ; the two individual distributions are called the single-layer potential and the double-layer potential respectively. Odqvist

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(1930) noted that each of these potentials expresses an acceptable Stokes flow which, in principle, may be used independently to represent a given flow.

~~Generalized boundary integral methods (Chapter 4 ...~~

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