Boundary value problems and integral equations
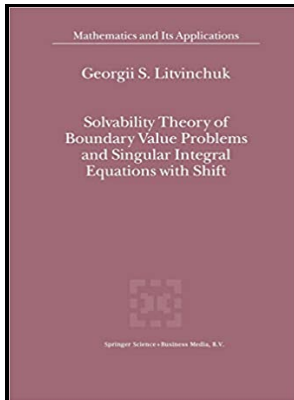
Consultants Bureau - INTEGRAL EQUATIONS BOUNDARY VALUE PROBLEMS AND RELATED PROBLEMS

Mathematics and Its Applications

Georgii S. Litvinchuk

Solvability Theory of
Boundary Value Problems
and Singular Integral
Equations with Shift

Springer Science+Business Media, B.V.

Description: -
-Boundary value problems and integral equations
-
Problems in mathematical analysis -- vol.1Boundary value problems and integral equations
Notes: A revised and corrected translation of: Problemy matimaticheskogo analiza. Leningrad: Leningrad University Press, 1966.
This edition was published in 1968

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Solving boundary value problems, integral, and integro

It has a lot of applications in optics, acoustics, aerodynamics since one can use this this method also for other kinds of wave equations. Among several types of fractional differential equations found in the literature, the Caputo and Riemann—Liouville derivatives are studied separately in many cases.

Boundary value problem

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So, the boundary conditions there will really be conditions on the boundary of some process.

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All three of these examples used the same differential equation and yet a different set of initial conditions yielded, no solutions, one solution, or infinitely many solutions.

The Boundary Integral Equation

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Parabolic Problems and Boundary Integral Equations, Mathematical Methods in the Applied Sciences

With boundary value problems we will often have no solution or infinitely many solutions even for very nice differential equations that would yield a unique solution if we had initial conditions instead of boundary conditions. Also, note that with each of these we could tweak the boundary conditions a little to get any of the possible solution behaviors to show up i. The proposed approach recasts the original problems into their integral formulations, which are then discretized into linear systems of algebraic equations using Gegenbauer integration matrices GIMs.

Integral Equations & Boundary Value Problems by M.D. Raisinghania

This means that given the input to the problem there exists a unique solution, which depends continuously on the input.

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