

Dirichlet problem with L2-boundary data for elliptic linear equations

Springer-Verlag - The Dirichlet Problem for Elliptic



Description: -

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Differential equations, Elliptic -- Numerical solutions.
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Lecture notes in mathematics -- 1482 Dirichlet problem with L2-boundary data for elliptic linear equations
Notes: Includes bibliographical references and index.
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Tags: #Elliptic #Boundary #Value #Problem

Elliptic Boundary Value Problem

The significant features of this recent research are the use of weighted Sobolev spaces, existence results for elliptic equations under very weak regularity assumptions on coefficients, energy estimates involving L2-norm of a boundary data and the construction of a space larger than the usual Sobolev space $W_{1,2}$ such that every L2-function on the boundary of a given set is the trace of a suitable element of this space. Wei-Ming Ni, in, 2004 5 Graphics and visualization 1 With the advances of computing facilities in recent years, numerical simulations or scientific computations have become an integral part of modern mathematics, especially in the branches of differential equations, applied mathematics and related areas. Again, the associated Schwarz formulation with respect to sections of $\Psi \sim \Omega$ of symmetric H s-elliptic variational problems will lead to uniformly well-conditioned linear systems, and to preconditioners which possess a recursive structure similar to 2.

Elliptic Boundary Value Problem

Let A and B be nonsingu.

[1204.0668] Selected problems on elliptic equations involving measures

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The Dirichlet problem with L2

We give a consistency analysis showing that most of the $O(N^2)$ entries in the Galerkin stiffness matrix can be neglected while essentially retaining the optimal asymptotic convergence rates of the full Galerkin scheme.

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