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Autor:

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Sinopsis

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The goal of this work is to treat the following main boundary value problems for the Stokes system: (1) the Dirichlet problem with L p -data and nontangential maximal function estimates, (2) the Neumann problem with L p -data and nontangential maximal function estimates, (3) the Regularity problem with L p 1 -data and nontangential maximal function estimates, (4) the transmission problem with L p -data and nontangential maximal function estimates, (5) the Poisson problem with Dirichlet condition in Besov-Triebel-Lizorkin spaces, and (6) the Poisson problem with Neumann condition in Besov-Triebel-Lizorkin spaces, in Lipschitz domains of arbitrary topology in R n , for each n=2 .

The authors' approach relies on boundary integral methods and yields constructive solutions to the aforementioned problems.

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Readership

Graduate students and research mathematicians interested in the Stokes system, Lipschitz domains, boundary problems, layer potentials, and Besov-Triebel-Lizorkin spaces.

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