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A New Numerical Method for Solving the Stokes Problem Using Quadratic Programming

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ABSTRACT

In this paper we present a new method for solving the Stokes problem which is a constrained optimization method. The new method is simpler and requires less computation than the existing methods. In this method we transform the Stokes problem into a quadratic programming problem and by solving it, the velocity and the pressure are obtained.

KEYWORDS

Galerkin Method, Neural Network Model, Quadratic Programming Problem, Stokes Problem

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