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Efficient Solvers for Incompressible Flow Problems: An Algorithmic and Computational Approach (Lecture Notes in Computational Science and Engineering)

Stefan Turek

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A discussion of recent numerical and algorithmic tools for the solution of certain flow problems arising in CFD, which are governed by the incompressible Navier-Stokes equations. The book contains the latest results for the numerical solution of (complex) flow problems on modern computer platforms, with particular emphasis on the solution process of the resulting high dimensional discrete systems of equations which is often neglected in other works. Together with the accompanying CD ROM containing the complete FEATFLOW 1.1 software and parts of the "Virtual Album of Fluid Motion", readers are able to perform their own numerical simulations and will find numerous suggestions for improving their own computational simulations.

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