

Fast solvers for the Navier–Stokes equations with applications in arterial blood flow

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We present an overview on different preconditioners for the Navier–Stokes equations. In particular we focus on preconditioning techniques for high Reynolds number flows, which arise in problems for arterial blood flow. Further, preconditioners for stabilized finite element methods for the Navier–Stokes equations are discussed. Some numerical results with applications in arterial blood flow will be given.

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