



Numerical Treatment of the Navier-Stokes Equations

By Wolfgang Hackbusch

Vieweg & Teubner Verlag Jan 1990, 1990. Taschenbuch. Book Condition: Neu. 235x155x9 mm. This item is printed on demand - Print on Demand Neuware - The most frequently used method for the numerical integration of parabolic differential equations is the method of lines, where one first uses a discretization of space derivatives by finite differences or finite elements and then uses some time-stepping method for the the solution of resulting system of ordinary differential equations. Such methods are, at least conceptually, easy to perform. However, they can be expensive if steep gradients occur in the solution, stability must be controlled, and the global error control can be troublesome. This paper considers a simultaneous discretization of space and time variables for a one-dimensional parabolic equation on a relatively long time interval, called 'time-slab'. The discretization is repeated or adjusted for following 'time-slabs' using continuous finite element approximations. In such a method we utilize the efficiency of finite elements by choosing a finite element mesh in the time-space domain where the finite element mesh has been adjusted to steep gradients of the solution both with respect to the space and the time variables. In this way we solve all the difficulties...



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