



Development of Implicit Methods in Cfd NASA Ames Research Center 1970 s-1980 s (Paperback)

By Thomas H Pulliam

Bibliogov, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ****** Print on Demand ******. The focus here is on the early development (mid 1970 s-1980 s) at NASA Ames Research Center of implicit methods in Computational Fluid Dynamics (CFD). A class of implicit finite difference schemes of the Beam and Warming approximate factorization type will be addressed. The emphasis will be on the Euler equations. A review of material pertinent to the solution of the Euler equations within the framework of implicit methods will be presented. The eigensystem of the equations will be used extensively in developing a framework for various methods applied to the Euler equations. The development and analysis of various aspects of this class of schemes will be given along with the motivations behind many of the choices. Various acceleration and efficiency modifications such as matrix reduction, diagonalization and flux split schemes will be presented.



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