

TABLE OF CONTENTS

Preface	1
ADAMS, E.: Sensitivity Analysis and Step Size Control for Discrete Analogies of Nonlinear Para- bolic or Hyperbolic Partial Differential Equations	3
BENDA, J.: Solution of Axially Symmetric Flow of an Ideal Fluid	15
CAPODANNO, P.: Unsteady Irrotational Motions of an In- compressible Fluid in Multiply Connected Domains	27
DOLGOV, V.N.; ZHELTOVODOV, A.A.: Analysis of Properties of Two-Dimensional Turbulent Separated Flows in Compressible Streams	41
DVORAK, R.: The Role of Understanding the Physical Nature in Mathematical Solution of Problems in Fluid Dynamics	53
FEISTAUER, M.: Numerical Solution of Non-Viscous Axial- ly Symmetric Channel Flows	65
GOSPODINOV, P.; LAZAROV, R.; RADEV, St.: Numerical Treatment of Some Problems of Flow and In- stability of Liquid Jets	79
HAASE, W.; NAAR, M.: Hyperbolic Solvers for the Euler Equations	95
KHARITONOV, A.M.; KORNILOV, V.I.: Viscous Spatial Flows in Corner Configurations	115
KOVENYA, V.M.: The Splitting-up Method in Problems of Aerodynamics	129
KOZEL, K.: Numerical solution of Three-Dimensional Transonic Shear Flows Past Thin Bodies	141
NICKEL, K.: Bounding the Separation Point of a Boundary Layer	153
OKRASIŃSKI, W.: Integral Equations Methods in the Theory of the Water Percolation	167
RAUTMANN, R.: Some Open Questions in Vorticity Transport and Navier-Stokes Equations	177

SCHÖNAUER, W; RAITH, K.: The Problem of Solving the 3-D Laminar Boundary Layer Equations with High Accuracy	189
SLEPTSOV, A.G.: The Finite Element Method for Solving the Problem of Stability of Laminar Boundary Layer Flow	203
SOCOLESCU, D.: On the Convergence at Infinity of the Steady Plane Leray Solution of the Dirichlet Problem for the Navier-Stokes Equations	211
VETLUTSKY, V.N.; GANIMEDOV, V.L.; KRUPA, T.V.: Laminar Boundary Layer at a Conic External Flow	223
VAN DE VOOREN, A.I.; VAN STUIJN, Th.L.: On the Stability of Almost Parallel Boundary Layer Flows	235
ZANDBERGEN, P.J.: Some Aspects of the Boundary Layer of a Conducting Fluid above a Disk as Generated by Vortex	247
<u>Participants</u>	263