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Nota di contenuto	Symplectic geometry and numerical methods in fluid dynamics -- On some problems of dynamic meteorology -- Some recent developments in spectral methods -- A perspective of computational fluid dynamics -- Simulation of compressible inviscid flows: The italian contribution -- Method of lines approach to the numerical solution of fluid dynamic equations -- On a marching iteration method in solving gas dynamic equations -- Computation of unsteady shock wave motion by the modified flux TVD scheme -- Swirling diffuser flow using a reduced Navier-stokes formulation -- Numerical studies of bifurcations in the confined Benard problem -- Diffusion and Rosseland approximation property of the boundary layer -- Finite difference solution of the 3-D Euler equations using a multistage Runge-Kutta method -- Solution of the compressible navier stokes equations by using embedded adaptive meshes -- Simulation of large incompressible flows by the finite element method -- A downstream boundary condition for the numerical solution of viscous flow -- Scaling and computation of smooth atmospheric motions -- Computation of vortex flows past a

flat plate at high angle of attack -- Spectral simulation of thermal convection in complex geometries -- Three-dimensional separated viscous flow analyses -- A full Navier-Stokes simulation of complex internal flows -- A strong inviscid-viscous interaction solution of a plane transonic cascade flow -- Computation of turbulent spot evolution -- Computation of low mach number flows with buoyancy -- Vortex multipole methods for viscous incompressible flows -- Free-lagrangian hydrodynamics using massless tracer points -- Impact of turbulence modeling on numerical accuracy and efficiency of compressible flow simulations -- Numerical modelling of a bubble rising through viscous fluid -- Thermocapillary free boundaries in crystal growth -- A quasi-conservative coin lambda formulation -- An implicit time-marching method for solving the 3-D compressible Euler equations -- Large eddy simulation of a narrow source of passive scalar in homogeneous strained turbulence -- Characteristic decomposition methods for the multidimensional Euler equations -- Generalized finite differences for operators of Navier-Stokes type -- On the coupling of incompressible viscous flows and incompressible potential flows via domain decomposition -- Free mass-lump method for two-dimensional compressible flow -- Spectral methods for modeling chemically reacting flow fields -- Time accurate solutions of the Navier-Stokes equations for reacting flows -- A finite element method for simulation of unsteady flows -- Alternating direction adaptive grid generation for three-dimensional regions -- Transition phenomena over a flat plate for compressible flows -- On conservative properties and non-conservative forms of Euler solvers -- A numerical scheme for the unsteady transonic flow around an oscillating airfoil -- Free surface calculation of capillary spreading -- A combined numerical scheme for transonic flows -- Fully developed pulsatile flow in a curved pipe -- Implicit hybrid schemes for the flux-difference split, three-dimensional Navier-Stokes equations -- A nonlinear multigrid method for the efficient solution of the steady Euler equations -- Calculation of flow in a supersonic compression corner by the Dorodnitsyn Finite Element Method -- The solution of system of non-linear algebraic equations generated in boundary points calculation -- A test problem for unsteady shock wave calculation -- Applications of numerical conformal mapping technique -- Euler calculations for a complete aircraft -- On the convergence of particle methods applied to the Euler and free surface equations -- Multitasked embedded multigrid for three-dimensional flow simulation -- Numerical simulation of some separated flows -- Numerical study of the entrance flow of a circular pipe -- A numerical method to assess the feedback in a free shear layer -- Consistent strongly implicit iterative procedures -- An isoparametric spectral element method in simulation of incompressible complex flows -- Initiation of breakdown in slender compressible vortices -- A pseudospectral method for solution of the three-dimensional incompressible Navier-Stokes equations -- A numerical study of incompressible juncture flows -- On the PIC method for elastic-plastic flow -- Implicit methods for computing chemically reacting flow -- A "Large-particle" difference method with second order accuracy for computation of two-dimensional unsteady flows -- Airfoil design at sonic velocity -- Applications of the method of flux-corrected transport to generalized meshes -- Accurate, efficient and productive methodology for solving turbulent viscous flows in complex geometry -- A simple and efficient implicit scheme for the compressible Navier-Stokes equations -- On an implicit numerical scheme for two-dimensional steady Navier-Stokes equations -- Numerical simulation of transition in a three-dimensional boundary layer -- A discrete vector

potential method for unsteady 3-D Navier-Stokes equations -- Interaction between structure and free surface fluid with large displacements by finite elements -- Computation of turbulent separated flow with an integral boundary layer method -- Numerical investigations of the structure of three-dimensional confined wakes behind a circular cylinder -- On the cell-centre and cell-vertex approaches to the steady Euler equations and the use of shock fitting -- FDM-FEIN zonal approach for computations of compressible viscous flows -- Numerical simulation of splash of droplet -- Energy absorbing boundary conditions for the Navier-Stokes equation -- Interaction of vortical flow regions -- Simulation of buffeting stall for a cambered Joukowski airfoil using a fully implicit method -- Adaptive full-multigrid finite element methods for solving the two-dimensional Euler equations -- Simulation of hypersonic viscous flows around a cone-delta-wing combination by an implicit method with multigrid acceleration -- Viscous pressure wave boundary layer interaction -- Some nonstandard finite element methods for the numerical solution of viscous flow problems -- Exact solution of nonlinear difference equations for discrete shock waves -- A cell-vertex multigrid scheme for solution of the Euler equations for transonic flow past a wing -- Numerical prediction of the aerodynamic behaviour of porous airfoils -- Finite element solution to the Euler equations -- Multigrid solution of the compressible Navier-Stokes equations on a vector computer -- Using of an arbitrary coordinate for three-dimensional fluid dynamic problems -- On conservatism of difference schemes of gas dynamics -- A numerical analysis of a nonlinear eigenvalue problem occurring in viscous oscillations of a supported drop -- Algebraic model of Large Eddy Simulation -- A three-dimensional incompressible flow solver -- Variable-elliptic-vortex method for incompressible flow simulation -- Application of the fast adaptive composite grid method to computational fluid dynamics -- Merging of vortices with decaying cores and numerical solutions of Navier-Stokes equations -- Direct simulation of shear flow turbulence in a plane channel by sixth order accurate method of lines with new sixth order accurate multi-grid Poisson solver -- Solutions of the Navier-Stokes equations using an efficient spectral method -- An implicit flux-split algorithm for the compressible Euler and Navier-Stokes equations -- Numerical solution of transonic small disturbance pressure equation and its applications -- A new switch-scheme for convection-diffusion equations -- Stability of semidiscrete approximations for hyperbolic initial-boundary-value problems: an Eigenvalue analysis -- 3-D and 2-D Solutions of the Quasi-Conservative Euler Equations -- An Unconditionally L² — stable method of fractional steps for numerical solution of convective diffusion problems -- A hybrid upwind scheme for the computation of shock-on-shock interaction around blunt bodies -- Multiple laminar flows through curved pipes -- Numerical experiments with a symmetric high-resolution shock-capturing scheme -- A design and test of a numerical coupled land-atmosphere-ocean model -- A mixed antidissipative method solving three dimensional separated flow -- Pointwise finite element method and its applications to compressible flows -- Unsteady transonic flows around oscillating wings -- A Lagrangian-Eulerian particle model for turbulent two-phase flows with reacting particles -- Analysis of transonic wings including viscous interaction.
