



## American Cotswold Record Volume 7

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 42 pages. Original publisher: Cleveland, Ohio : NASA Lewis Research Center ; Springfield, Va. : For sale by the National Technical Information Service, 1989 OCLC Number: ocm22684846 Subject: Fluid mechanics. Excerpt: . . where  $x$  and  $y$  are spatial coordinates, and  $v$  are Cartesian velocities,  $\rho$  is the density,  $\mu$  is the effective viscosity,  $\mu_m$  is the molecular viscosity,  $\mu_t$  is the turbulent viscosity, and eqs. (8-10) follow from the conservation of mass,  $u$ -momentum, and  $v$ -momentum, respectively. numerical calculation of incompressible flows, the conservation of mass equation is replaced by a pressure correction equation given as:  $\rho^{n+1} = \rho^n + \frac{2}{\Delta t} (\rho^n - \rho^{n-1}) - \frac{1}{\Delta t} \nabla \cdot (\mathbf{u}^n - \mathbf{u}^{n-1})$  where the superscript denotes the current values, and  $A_x, A_y, A_z$  are coefficients relating the incremental velocities and the incremental pressure and the last term represents the mass imbalance. A similar pressure correction equation for both incompressible and compressible flows and its derivation can be found in Kim (1989a). the present numerical method, the velocities are located at the same grid points and the...



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