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In physics and engineering, fluid dynamics is a subdiscipline of fluid mechanics that describes the flow of fluids—liquids and gases. It has several subdisciplines, including aerodynamics (the study of air and other gases in motion) and hydrodynamics (the study of liquids in motion). Fluid dynamics has a wide range of applications, including calculating forces and moments on aircraft ...

Fluid dynamics - Wikipedia

JOURNAL OF COMPUTATIONAL PHYSICS 39, 201-225 (1981) Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries* C. W. HIRT AND B. D. NICHOLS Los Alamos Scientific Laboratory, Los Alamos, New Mexico 87545 Received November 1, 1979 Several methods have been previously used to approximate free boundaries in finite- difference numerical simulations.

Volume of fluid (VOF) method for the dynamics of free

The conservation form emphasizes the mathematical properties of Euler equations, and especially the contracted form is often the most convenient one for computational fluid dynamics simulations. Computationally, there are some advantages in using the conserved variables.

Euler equations (fluid dynamics) - Wikipedia

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Aerodynamic drag in cycling pelotons: New insights by CFD

Every month one particularly interesting article published in Journal of Fluid Mechanics is selected to be the subject of an extended review and discussion by an acknowledged and invited expert in the field.

Focus on Fluids: Journal of Fluid Mechanics - Cambridge Core

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Masaharu Isobe - stat.fm.nitech.ac.jp

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External ventricular drains: Management and complications

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