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A Mathematical Introduction to Fluid Mechanics Alexandre Chorin  
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and Dynamical Systems, 107-81 California Institute of  
Technology Pasadena, California 91125, USA. ii. iii

### **A Mathematical Introduction to Fluid Mechanics**

The Journal of Mathematical Fluid Mechanics (JMFM) is a forum for the publication of high-quality peer-reviewed papers on the mathematical theory of fluid mechanics, with special regards to the Navier-Stokes equations. As an important part of that, the journal encourages papers dealing with mathematical aspects of computational theory, as well as with applications in science and engineering.

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Fluid mechanics studies the systems with fluid such as liquid or gas under static and dynamics loads. Fluid mechanics is a branch of continuous mechanics, in which the kinematics and mechanical behavior of materials are modeled as a continuous mass rather than as discrete particles. The relation of fluid mechanics and continuous mechanics has been discussed by Bar-Meir (2008).

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Fluid mechanics topics include the Navier-Stokes equation, the Bernoulli equation, Reynold's number, pipe friction, manometer, and Venturi flowrate. Mechanics and materials topics: stress/strain, Mohr's circle, Hooke's law, Young's modulus, Rosette strain gage, and principal stress calculation.

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Fluid mechanics models consist of systems of nonlinear partial differential equations for which, despite a long history of important mathematical contributions, no complete mathematical understanding The second volume of this book describes compressible fluid-mechanics models.

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