

Alexandre J. Chorin - Jerrold E. Marsden

# A Mathematical Introduction to Fluid Mechanics

Third Edition



Springer

# Mathematical Introduction To Fluid Mechanics

**Michael Belevich**

## **Mathematical Introduction To Fluid Mechanics:**

*A Mathematical Introduction to Fluid Mechanics* Alexandre J. Chorin, Jerrold E. Marsden, 2013-11-27 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM. The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics. Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs.

Preface: This book is based on a one term course in fluid mechanics originally taught in the Department of Mathematics of the University of California Berkeley during the spring of 1978. The goal of the course was not to provide an exhaustive account of fluid mechanics nor to assess the engineering value of various approximation procedures.

*A Mathematical Introduction to Fluid Mechanics* Alexandre Joel Chorin, Jerrold E. Marsden, 1990 A presentation of some of the basic ideas of fluid mechanics in a mathematically attractive manner. The text illustrates the physical background and motivation for some constructions used in recent mathematical and numerical work on the Navier Stokes equations and on hyperbolic systems so as to interest students in this at once beautiful and difficult subject. This third edition incorporates a number of updates and revisions while retaining the spirit and scope of the original book.

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