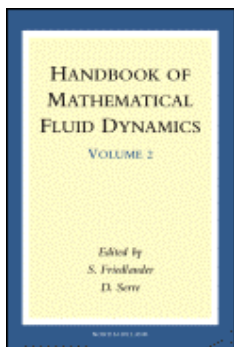


Handbook of Mathematical Fluid Dynamics, Volume 2
Edited by S. Friedlander and D. Serre



SPECIAL OFFER PRICE
30% off the usual price!

Now USD 94.50 - used to be USD 135(!)
Now Euro 94.50 - used to be Euro 135(!)

©2003, hardbound, 588 pages
ISBN: 0-444-51287-X

For more information, please turn over

SPECIAL DISCOUNT ORDER FORM (VALID UNTIL 1st July 2003)

- YES! Please send me _____ copy(ies) of the Handbook of Mathematical Fluid Dynamics, Volume 2, edited by S. Friedlander and D. Serre (ISBN: 0-444-51287-X) at the Special Discount Price of USD 94.50 / Euro 94.50

Order value sub-total USD/EURO: _____
Non-UK EU (European Union) residents must either: state VAT number here: _____ or add VAT (or your country's equivalent) @ _____ %
Total payment USD/EURO: _____

Name (Please print): _____
Position: _____
Organization: _____
Address: _____
Region/State: _____
Post/ZipCode: _____ Country: _____
Tel: _____ Fax: _____
E-mai: _____

Payment Details

- Please send me a pro forma invoice
 Cheque/money order/UNESCO coupon made payable to Elsevier Science enclosed
 I wish to pay by credit card (accepted up to a maximum value of USD 5,000). Your credit card will be debited including VAT when applicable
 VISA American Express MasterCard

Card No.: _____ Exp.Date _____
Signature _____ Date _____

Save postage and Handling Charges

If you send full payment with your order, we will pay postage



**Please complete the order form and
fax to: +31 20-485-2616**

Or post to:

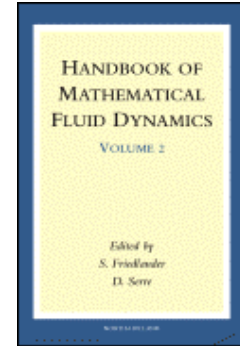
Andy Deelen, Elsevier Science, Mathematics & Computer
Science Department, P.O. Box 103, 1000 AC Amsterdam,
The Netherlands
Email: a.deelen@elsevier.com

Handbook of Mathematical Fluid Dynamics, Volume 2

Edited by:

S. Friedlander, University of Illinois-Chicago, IL 60607, USA

D. Serre, Ecole Normale Supérieure de Lyon, France



Description

The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject. Each article traces developments, surveys the results of the past decade, discusses the current state of knowledge and presents major future directions and open problems. Extensive bibliographic material is provided. The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to learn about or begin research in mathematical fluid dynamics. The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem, namely the motion of fluids.

Audience

1. Mathematics departments and institutes.
2. Physics departments and institutes, geophysics.
3. Engineering establishments, oceanography, meteorology.

Contents

Preface.

Statistical Hydrodynamics (R. Robert). Topics on Hydrodynamics and Volume Preserving Maps (Y. Brenier). Weak Solutions of Incompressible Euler Equations (A. Shnirelman). Near Identity Transformations for the Navier-Stokes Equations (P. Constantin). Planar Navier-Stokes Equations Vorticity Approach (M. Ben-Artzi). Attractors of Navier-Stokes Equations (A. Babin). Stability and Instability in Viscous Fluids (M. Renardy, Y. Renardy). Localized Instabilities in Fluids (S. Friedlander, A. Lipton-Lifshitz). Dynamo Theory (A.D. Gilbert). Water-waves as a Spatial Dynamical System (F. Dias, A. Iooss). Solving the Einstein Equations by Lipschitz Continuous Metrics: Shock Waves in General Relativity (J. Groah, J. Smoller, B. Temple).