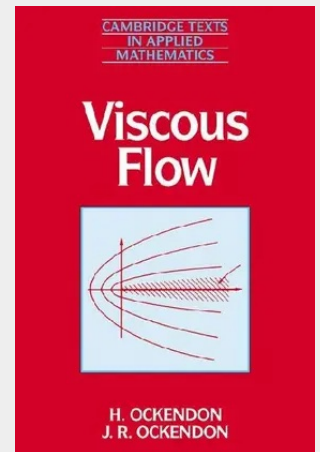


Viscous Flow

Many of the topics in inviscid fluid dynamics are not only vitally important mechanisms in everyday life but they are also readily observable without any need for instrumentation. It is therefore stimulating when the mathematics that emerges when these phenomena are modelled is novel and suggestive of alternative methodologies. This book provides senior undergraduates who are already familiar with inviscid fluid dynamics with some of the basic facts about the modelling and analysis of viscous flows. It clearly presents the salient physical ideas and the mathematical ramifications with exercises designed to be an integral part of the text. By showing the basic theoretical framework which has developed as a result of the study of viscous flows, the book should be ideal reading for students of applied mathematics who should then be able to delve further into the subject and be well placed to exploit mathematical ideas throughout the whole of applied science.

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47,80 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521458818

Medium: Buch

ISBN: 978-0-521-45881-8

Verlag: Cambridge University Press

Erscheinungstermin: 11.09.2006

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2006

Serie: Cambridge Texts in Applied Mathematics

Produktform: Kartoniert

Gewicht: 192 g

Seiten: 121

Format (B x H): 152 x 229 mm

