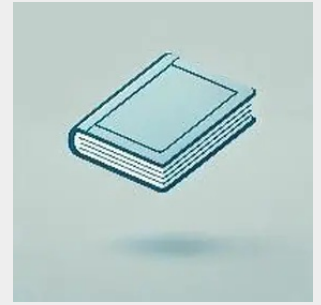


Advanced Viscous Flow

Advanced Viscous Flow is an in-depth guide to boundary-layer modeling strategies for fluid dynamicists. The book starts by providing the strong theoretical background essential to understand laminar and turbulent boundary layers in a variety of multidimensional viscous problems for steady and unsteady motions and bounded by either hard or porous walls. Particular attention is given to viscous layers engendered in rotating and oscillating flows, especially those driven by wall-normal or wall-tangential injection. Both differential and integral approaches are covered in detail, with numerous illustrations and test cases based on recent developments in the field. This is intended as a graduate textbook on viscous motion with a well-balanced mix of engineering applications. It is also a valuable resource for those in academic or industrial research tackling boundary layers in complex, multidimensional problems.

Advanced Viscous Flow is an in-depth guide to boundary-layer modeling strategies for fluid dynamicists. The book starts by providing the strong theoretical background essential to understand laminar and turbulent boundary layers in a variety of multidimensional viscous problems for steady and unsteady motions and bounded by either hard or porous walls. Particular attention is given to viscous layers engendered in rotating and oscillating flows, especially those driven by wall-normal or wall-tangential injection. Both differential and integral approaches are covered in detail, with numerous illustrations and test cases based on recent developments in the field.

This is intended as a graduate textbook on viscous motion with a well-balanced mix of engineering applications. It is also a valuable resource for those in academic or industrial research tackling boundary layers in complex, multidimensional problems.



187,50 €

187,50 € (zzgl. MwSt.)

vorbestellbar, Erscheinungstermin ca. Januar 2027

Artikelnummer: 9780443136030

Medium: Buch

ISBN: 978-0-443-13603-0

Verlag: Elsevier Science

Erscheinungstermin: 01.01.2027

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2027

Produktform: Kartoniert

Gewicht: 450 g

Seiten: 300

Format (B x H): 152 x 229 mm

