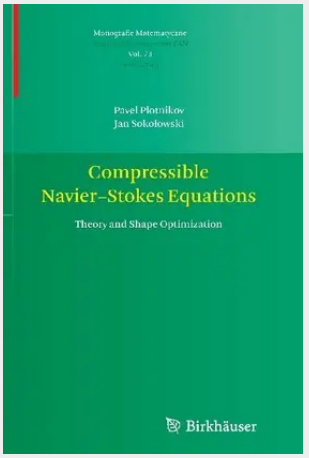
Plotnikov / Sokolowski

Compressible Navier-Stokes Equations

Theory and Shape Optimization



The book presents the modern state of the art in the mathematical theory of compressible Navier-Stokes equations, with particular emphasis on the applications to aerodynamics. The topics covered include: modeling of compressible viscous flows; modern mathematical theory of nonhomogeneous boundary value problems for viscous gas dynamics equations; applications to optimal shape design in aerodynamics; kinetic theory for equations with oscillating data; new approach to the boundary value problems for transport equations. The monograph offers a comprehensive and self-contained introduction to recent mathematical tools designed to handle the problems arising in the theory.

The book presents the modern state of the art in the mathematical theory of compressible Navier-Stokes equations, with particular emphasis on the applications to aerodynamics. The topics covered include:modeling of compressible viscous flows; modern mathematical theory of nonhomogeneous boundary value problems for viscous gas dynamics equations;applications to optimal shape design in aerodynamics;kinetic theory for equations with oscillating data;new approach to the boundary value problems for transport equations.The monograph offers a comprehensive and self-contained introduction to recent mathematical tools designed to handle the problems arising in the theory.

106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783034807654
Medium: Buch
ISBN: 978-3-0348-0765-4
Verlag: Birkhäuser
Erscheinungstermin: 20.09.2014
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2014
Serie: Monografie Matematyczne
Produktform: Kartoniert
Gewicht: 721 g
Seiten: 464
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)