

vortex movement theory



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VORTEX MOVEMENT THEORY



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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 256 Publisher: China University of Science and Technology Press Pub. Date :2009-01. vortex motion is the most common kind of fluid movement patterns. This book systematically introduces the basic theory of vortex motion of the main aspects. we could achieve a drawing concise. clear physical meaning. rigorous mathematical exposition. while appropriate to reflect contemporary research in the field of new development. The book is divided into nine chapters. The first three chapters introduce the basic equations. vorticity field of kinematics and dynamics. such as fluid kinetic energy. impulse. impulse moment of vorticity field is not variable. as well as helicity and vortex to be can and other new concepts. Chapter 4 describes a typical solution of vortex motion. such as the Oseen vortex. elliptical vortex. Lamb vortex dipole. Burgers vortex and Betchelor vortices. they are often widely used as a theoretical model. The next three chapters about the non-viscous fluid in the evolution of the surface vortex. vortex lines and vortex rings. point vortex system dynamics. The last two chapters are rotating fluid in the vortex motion and vortex methods as a numerical method. Book as a high school graduate or professional mechanics undergraduate teaching. but also for the aerospace. marine atmosphere. energy and chemical industries teachers and researchers for reference. Contents: Preface total order reprint main symbol table in Chapter 1 Introduction 1.1 Introduction 1.1.1 1.1.2 vorticity field vorticity vortex 1.1.4 1.1.3 The physical meaning of the significance of vortex movement kinematics relations 1.2.1 1.2 1.2.2 Description of flow field kinematics of the basic equation 1.3 dynamics and energy equations 1.3.1n-s kinetic equation vorticity equation 1.3.2 1.3.3 1.3.4 speed circulation kinetic energy equation with equation: complex flow...



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