



vortex movement theory

By TONG BING GANG YIN XIE YUAN ZHU KE QIN

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...



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