

Cambridge Monographs on Mechanics

Theory and Modeling of Rotating Fluids

Convection, Inertial Waves
and Precession

Keke Zhang and Xinhao Liao

Theory Of Rotating Fluids

Hermann Glauert



Theory Of Rotating Fluids:

The Theory of Rotating Fluids Greenspan, 1968-07 **The Theory of Rotating Fluids** Harvey Philip Greenspan, 1968
The Theory of Rotating Fluids Harvey Philip Greenspan, 1969 *The Theory of Rotating Fluids* Harvey Philip Greenspan, 1980 *Some Problems in the Theory of Rotating Fluids* J. P. Price, 1968 *Theory and Modeling of Rotating Fluids* Keke Zhang, 2017 A systematic account of the theory and modelling of rotating fluids that highlights the remarkable advances in the area and brings researchers and postgraduate students in atmospheres oceanography geophysics astrophysics and engineering to the frontiers of research Sufficient mathematical and numerical detail is provided in a variety of geometries such that the analysis and results can be readily reproduced and many numerical tables are included to enable readers to compare or benchmark their own calculations Traditionally there are two disjointed topics in rotating fluids convective fluid motion driven by buoyancy discussed by Chandrasekhar 1961 and inertial waves and precession driven flow described by Greenspan 1968 Now for the first time in book form a unified theory is presented for three topics thermal convection inertial waves and precession driven flow to demonstrate that these seemingly complicated and previously disconnected problems become mathematically simple in the framework of an asymptotic approach that incorporates the essential characteristics of rotating fluids

Theory and Modeling of Rotating Fluids: Convection Keke Zhang, 2017
Rotating Fluids in Engineering and Science James P. Vanyo, 1993 Invaluable for engineers and scientists whose projects require a knowledge of the theory Part I reviews basic fluid mechanics Part II introduces concepts theories and equations specific to rotating fluids and Part III presents numerous practical applications of the theory in fields ranging from centrifuges to aerodynamics Highly recommended Choice

Mathematical Geophysics Jean-Yves Chemin, 2006-04-13 Aimed at graduate students and researchers in mathematics engineering oceanography meteorology and mechanics this text provides a detailed introduction to the physical theory of rotating fluids a significant part of geophysical fluid dynamics The Navier Stokes equations are examined in both incompressible and rapidly rotating forms

Rotating Fluids in Engineering and Science J P Vanyo, 2015-09-02 Approx 440 pages **An Introduction to the Mathematical Theory of Geophysical Fluid Dynamics**, 1980-01-01 An Introduction to the Mathematical Theory of Geophysical Fluid Dynamics

Rotating Fluids in Geophysics Paul Harry Roberts, A. M. Soward, 1978 The subject of rotating fluids is worth studying for many reasons not least of which is that all large scale motions of the Earth s atmosphere oceans and core are dominated by its rotation Trade winds follow lines of latitude because of rotation the effect of these winds upon the Atlantic generates in gyroscopic fashion the intense northerly flowing Gulf Stream and evidence of the impact of rotation on the Earth s core is seen in the northward pointing compass However the study of rotating fluids has also been characterized by the power elegance and ingenuity of the experimental and theoretical tools which have been brought to bear on it tools of which every fluid mechanist ought to be aware This book is devoted primarily to a theoretical exposition of the subject although several

sections are centred on experimental and numerical techniques in their applications to the atmosphere oceans and core of the Earth A theme running through the book is waves and stability supported by a brief section expounding hydrodynamic stability theory

Proceedings of the Royal Society of London Royal Society (Great Britain),1922 **A Treatise on the Mathematical Theory of the Motion of Fluids** Sir Horace Lamb,1879 **Rotating Fluids in Geophysical and Industrial Applications** E.J. Hopfinger,2014-05-04 The volume presents a comprehensive overview of rotation effects on fluid behavior emphasizing non linear processes The subject is introduced by giving a range of examples of rotating fluids encountered in geophysics and engineering This is then followed by a discussion of the relevant scales and parameters of rotating flow and an introduction to geostrophic balance and vorticity concepts There are few books on rotating fluids and this volume is therefore a welcome addition It is the first volume which contains a unified view of turbulence in rotating fluids instability and vortex dynamics Some aspects of wave motions covered here are not found elsewhere **Literature**

1980, Part 2 Siegfried Böhme,Professor Dr. Walter Fricke,Inge Heinrich,Wilfried Hofmann,Dietlinde Krahn,Dorothea Rosa,Dr. Lutz D. Schmadel,Gert Zech,2013-04-18 **Applied Mechanics Reviews** ,1978 The Elements of Aerofoil and Airscrew Theory Hermann Glauert,1926 Mathematical Problems in the Geophysical Sciences: Inverse problems, dynamo theory, and tides William Hill Reid,1971 Romanes Lectures ,1920

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