

# THE UNSTEADY FLOW WITHIN A SPINNING CYLINDER



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Authors: Wedemeyer, E. H.. Publication: Journal of Fluid Mechanics, vol. 20, p.383-399. Publication Date: 00/1964.

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Unsteady Flows. Stefan Carstensen\* and Xerxes Mandviwalla. DHI, Ports and Offshore Technology Department,

Horsholm, **The unsteady flow within a spinning cylinder** Greenspan, H. P. (1968) The theory of rotating fluids. Cambridge U. P.

Wedemeyer, E. H. (1964) The unsteady flow within a spinning cylinder. J. Fluid Mech. **The flow of a liquid film on the inside of a rotating cylinder, and some** Ungarish, M. (1986) Flow of a separating mixture in a rotating cylinder, Phys. Fluids Considers the effect of endplates (Ekman layers) on separation in a cylinder, using Wedemeyer, E. H. (1964) The unsteady flow within a spinning cylinder, **Unsteady flow past a rotating circular cylinder at Reynolds numbers** A theoretical analysis is given of the unsteady flow within a liquid-filled cylinder of finite length, which is started impulsively to spin about its axis. It is established that a secondary flow, which is caused by the cylinder ends, has a remarkable effect on the generation of spin in the liquid. **Liquid Sloshing Dynamics: Theory and Applications - Google Books Result** Jul 20, 1988 unsteady flow generated in a viscous fluid by a circular cylinder which is Steady flows over rotating cylinders at small values of  $R$  and low **Unsteady flow past a rotating circular cylinder at Reynolds numbers** Printed in Great Britain. 3 83. The unsteady flow within a spinning cylinder. By E. H. WEDEMEYER. U.S.A. Ballistic Research Laboratories, Aberdeen Proving **The unsteady flow within a spinning cylinder - Cambridge Core** These results were found to be in contradiction to those obtained by 11.2.2 Fluid-filled spinning cylinder The unsteady flow of a liquid within a cylinder of finite **Hydrodynamics of Suspensions: Fundamentals of Centrifugal and - Google Books Result** **The unsteady flow within a spinning cylinder - SAO/NASA ADS** 158 MODELING ATMOSPHERIC AND OCEANIC FLOWS Trieling, R. R., G. J. F. van Wedemeyer, E. H. (1964), The unsteady flow within a spinning cylinder, **The unsteady flow within a spinning cylinder Cambridge Core** Apr 1, 2006 The unsteady flow past a circular cylinder which starts translating and rotating impulsively from rest in a viscous fluid is investigated both **Unsteady flow past a rotating circular cylinder at Reynolds numbers** Mar 21, 2011 This paper deals with the unsteady rotating flow of a generalized Maxwell flows of Maxwell and Oldroyd-B fluids within an infinite cylinder or **none** Mar 1, 2006 A theoretical analysis is given of the unsteady flow of a liquid within a cylinder of finite length started suddenly so as to spin about its axis. **Higher-order-compact simulation of unsteady flow past a rotating** Aberdeen, Md. A theoretical analysis is given of the unsteady flow of a liquid within a cylinder of finite length started suddenly so as to spin about its axis. It is found that a secondary flow, caused by the end walls of the cylindrical container, has a strong effect on the generation of spin in the liquid. **The unsteady flow within a spinning cylinder** Flow past two uniformly rotating cylinders with the same rotation rates in a . Dennis, and C. Menard, Unsteady flow past a rotating circular cylinder at Reynolds **Steady and unsteady solutions for coating flow on a rotating** (2015) Towards the detection of moving separation in unsteady flows. Journal of (2015) On the flow separation in the wake of a fixed and a rotating cylinder. **On the flow separation in the wake of a fixed and a rotating cylinder.** Apr 1, 2006 The unsteady flow past a circular cylinder which starts translating and rotating impulsively from rest in a viscous fluid is investigated both **Progress In Astronautics and Aeronautics: Commercial Opportunities - Google Books Result** R. E. Johnson, Steady-state coating flows inside a rotating horizontal cylinder, J. Fluid Mech. <https://JFLSA7> 190, 321 (1988). <https://doi.org/JFLSA7> **Boundary-Layer Separation in Unsteady Flow : SIAM Journal on** vection flows in a horizontal annulus with a heated rotating inner circular cylinder. Colette Calmelet-Eluhu and Philip Crooke [4] tudied unsteady conducting **Exact solutions for the unsteady rotating flows of a generalized** Printed in Great Britain. 3 83. The unsteady flow within a spinning cylinder. By E. H. WEDEMEYER. U.S.A. Ballistic Research Laboratories, Aberdeen Proving