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38 P. CHOSSAT and G. Iooss I. Introduction 1.1 Description of experimental results The Couette-Taylor problem has become very popular during the last fifteen

### **Primary and Secondary Bifurcations in the Couette-Taylor**

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In this study, we apply the energy gradient theory to analyze the Taylor-Couette flow between concentric rotating cylinders, and aim to demonstrate that the mechanism of instability in Taylor-Couette flow can be explained via the energy gradient concept.

### **Instability of Taylor-Couette Flow between Concentric**

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consisting of two coaxial cylinders, the space between the cylinders being filled with a ...

### **Pascal Chossat & Gerard looss: Couette-Taylor Problem (PDF)**

Taylor showed that when the angular velocity of the inner cylinder is increased above a certain threshold, Couette flow becomes unstable and a secondary steady state characterized by axisymmetric toroidal vortices, known as Taylor vortex flow, emerges.

### **Taylorâ€“Couette flow - Wikipedia**

The transition from Taylor vortex flow to wavy vortex flow in the Couette-Taylor problem, for finite annulus lengths, is studied. Using an accurate, fully resolved numerical code, infinite- i cylinder nonlinear axisymmetric Taylor vortices are computed and their stability with respect to nonaxisymmetric disturbances corresponding to wavy vortices is determined. The present method computes ...

### **Onset of wavy vortices in the finite-length Couette**

To be submitted to Physics of Fluids Laminar Spiral Flow in the Outer-Stationary- Cylinder Couette-Taylor System M. N. Noui-Mehidi and H. M. Blackburn

### **Laminar Spiral Flow in the Outer-Stationary- Cylinder**

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