

Ecoulement bas Reynolds



Component École Nationale Supérieure d'Électrotechnique d'Électronique

In brief

- > plugin.odf-inp:PLUGINS_ODF_COURSE_NBHOURS_TXT: 12,25
- > Code: N6EM03B

Presentation

Objectives

The object of this course is to describe the particular hydrodynamic phenomena that one encounters with small Reynolds numbers . The basic equations are commented, analyzed and solved in simple geometries.

Description

Introduction: Re << 1 What is inertia? and applications Basic equations and different formulations Specific properties (linearity, reversibility, reciprocity) and consequences. Fundamental Solutions of Stokes Equations Cellule of Hele-Shaw Lubrication (hydraulic bearing) Flows in thin layers Calculation of the stokes force

Pre-requisites

Méca Fluides 1

