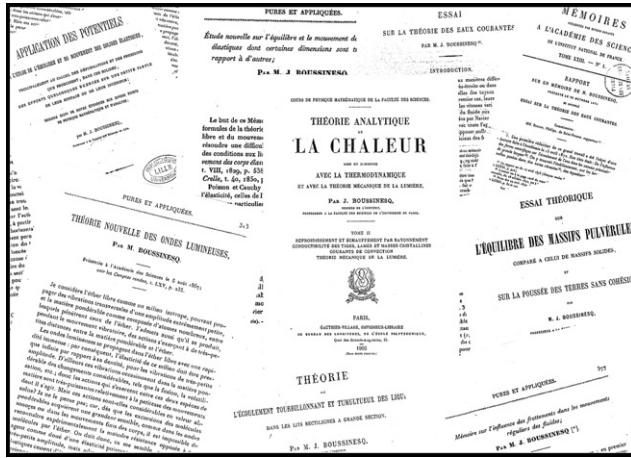


# COMPTES RENDUS

# MECANIQUE

Tome 335 (2007) – N° 9–10



Some of the titles pages from the many articles and books by Joseph Boussinesq

## Thematic issue / Numéro thématique

Joseph Boussinesq, a Scientist of bygone days and present times

Guest editor / Rédacteur en chef invité : Pierre-Antoine Bois

• Foreword <b>Pierre-Antoine Bois</b>	477
• Joseph Boussinesq (1842–1929): a pioneer of mechanical modelling at the end of the 19th Century <b>Pierre-Antoine Bois</b>	479
<b>Soils, granular media, civil engineering</b>	
• Bifurcations in granular media: macro- and micro-mechanics approaches <b>Félix Darve, Luc Sibille, Ali Daouadji, François Nicot</b>	496
• Use of the Boussinesq solution in geotechnical and road engineering: influence of plasticity <b>Marwan Sadek, Isam Shahrour</b>	516
<b>Boussinesq equation, elasticity, beams, plates</b>	
• On Boussinesq's paradigm in nonlinear wave propagation <b>Christo I. Christov, Gérard A. Maugin, Alexey V. Porubov</b>	521
• From Boussinesq–Love contact to impact between hyperelastic bodies <b>Zhi-Qiang Feng, Claude Vallée</b>	536
• Two-dimensional Boussinesq equation in a disc and anisotropic Sobolev spaces <b>Vladimir Varlamov</b>	548
<b>Boussinesq equation, surface waves in fluids</b>	
• Dissipative Boussinesq equations <b>Denys Dutykh, Frédéric Dias</b>	559

*Sommaire (suite)*

• J. Boussinesq and the standing water waves problem <b>Gérard Iooss</b> .....	584
<b>Unsteady flows, turbulent flows</b>	
• Interactive boundary layers in turbulent flow <b>Jean Cousteix, Jacques Mauss</b> .....	590
• On the history term of Boussinesq–Basset when the viscous fluid slips on the particle <b>Renée Gatignol</b> .....	606
• About Boussinesq's turbulent viscosity hypothesis: historical remarks and a direct evaluation of its validity <b>François G. Schmitt</b> .....	617
<b>Boussinesq approximation, convection</b>	
• Boussinesq approximations, and beyond, in a tall thermo-gravitational column <b>Gérard Labrosse</b> .....	628
• The Rayleigh–Benard problem in extremely confined geometries with and without the Soret effect <b>Jean K. Platten, Manuel Marcoux, Abdelkader Mojtabi</b> .....	638
<b>Boussinesq approximation, geophysical flows</b>	
• Generalizing the Boussinesq approximation to stratified compressible flow <b>Dale R. Durran, Akio Arakawa</b> .....	655
• Internal gravity waves: parametric instability and deep ocean mixing <b>Chantal Staquet</b> .....	665