Special Issue

Viscoelastic Solids: Mechanical Behaviour, Contact Mechanics, Fracture and Wear

Message from the Guest Editors

Assessing the mechanics and the physics of viscoelastic solids is a crucial issue in current engineering research and in applied science. Indeed, a variety of physical phenomena, including inter alia friction, adhesion, wear, are deeply influenced by viscoelasticity and determine in turn the behavior and the efficiency of a number of engineering systems, like adhesives, protective coatings, tires, seals, brakes, and clutches.

We invite authors to submit original research and review articles, which stimulate the continuing efforts to understand and improve the knowledge in these fields. Potential topics include, but are not limited to:

- rheology and mechanical behavior of viscoelastic solids
- fracture, fatigue and wear of viscoelastic materials
- contact, lubrication and friction of viscoelastic randomly rough and micro- and nano-structured surfaces
- contact failures of biomimetic materials and surfaces
- adhesive contacts
- advanced numerical techniques to study contact and friction of randomly rough surfaces

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