



Prof. Jianlin Liu

Department of Engineering Mechanics
China University of Petroleum, China

Elastocapillarity

June 25, 2018 | Bldg. 101
Monday 15:00 | Seminar Room on the 1st floor

Abstract

Elastocapillarity is the interplay between elastic deformation of elastic structures and capillary forces. We will give a brief introduction of this area, which deals with the deformation of slender beams, plates, tubes and membranes caused by capillary forces. We also proposed a unified adhesion model to analyze these kind of problems. Our mechanistic model can be compared with many experimental results.

Reference:

J. L., Liu and X. Q. Feng, Acta Mechanica Sinica, 2012

Jian Liu received the bachelor's degree from Qingdao University in 2000, master's degree from the Beijing Science and Technology University in 2003, and PhD from Tsinghua University in 2008. He is a Full Professor of the China University of Petroleum (East China), and the head of the Department of Engineering Mechanics. His interests are in soft matter, surface and interface mechanics, biomimetic mechanics, and related topics. He has published more than 50 papers.

You are cordially invited to attend!

Special Guest Seminar