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Table of Contents: 00:09 Lecture 2.5: Contact Mechanics Predict the stresses and ... 01:17 Action of a point force (Boussinesq, 1885) 02:33 Action of

a punch...

nanoHUB-U Fundamentals of AFM L2.5: Tip-Surface ...
repulsive contact forces mentioned earlier. MESO CONTACT MODEL SIMULATION TOOL IN NANOHUB. We deployed the Mesoscale Contact Model tool via nanoHUB.org using the Rappture toolkit (McLennan, 2005). Rappture stands for " r. apid . app. lication infrastruc. ture," and it is an easy way to utilize graphical user interfaces based on different programming

Contact Mechanics: Modeling the Interaction Between ...
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An online forum, hosted by nanoHUB. Students enrolled in the course will be able to interact with one another. Fundamentals of Nanoelectronics - Part B: Quantum Transport, 2nd Edition published on edX , October 2015 and nanoHUB-U, December 2015. Licensing. Registration. This self-paced course is available at no cost.

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This video is part of a Fall 2017 course at Purdue University: ME 597/PHYS 570: Fundamentals of Atomic Force Microscopy On nanoHUB: Table of Contents: 00:09 Lecture 2.6: Combining contact ...

Contact mechanics
Contact mechanics is the study of the deformation of solids that touch each other at one or more points. A central distinction in contact mechanics is between stresses acting perpendicular to the contacting bodies' surfaces (known as the normal direction) and frictional stresses acting tangentially between the surfaces. This page focuses mainly on the normal direction, i.e. on frictionless ...

Contact mechanics - Wikipedia
Contact Mechanics: Modeling the Interaction Between Surfaces with Nanoscale Asperities for MEMS via Online Simulations in NanoHUB

"Contact Mechanics: Modeling the Interaction Between ...
The model computed the long-range van der Waals attractive forces and repulsive interactions originating from the contact between solid surface asperities. The tool has been deployed in nanoHUB.org and is available for fully interactive, free online simulations using a web browser

Contact Mechanics: Modeling the Interaction Between ...
Project: Experimental Contact Mechanics in Particulate Composite Materials Fall 2017 - Spring 2019 ME 498 Project: Experimental Contact Mechanics in Particulate Composite Materials ... (SURF & nanoHUB) Project: Microstructure evolution during powder compaction Software development: Powder

Compaction (nanoHUB tool) Fall 2014 - Spring 2016

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