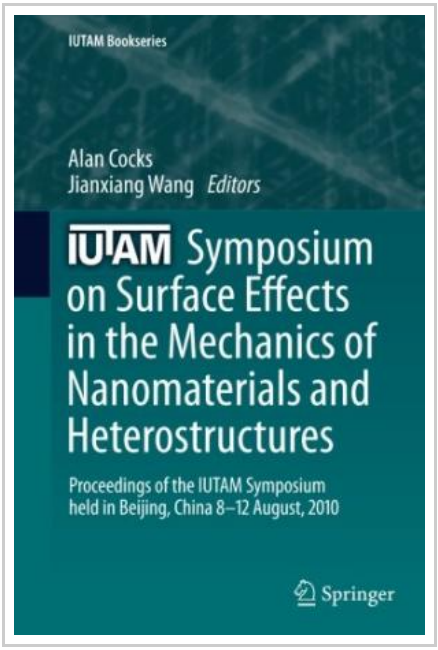

Iutam Symposium on Surface Effects in the Mechanics of Nanomaterials and Heterostructures: Proceedings of the IUTAM Symposium Held in Beijing, China, 8-12 August, 2010 (Paperback)

By -

Springer, Netherlands, 2014. Paperback. Book Condition: New. 2013 ed.. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.This volume constitutes the proceedings of the IUTAM Symposium on Surface Effects in the Mechanics of Nanomaterials and Heterostructures, held in Beijing, 8-12 August, 2010. The symposium brought together the most active scientists working in this area from the fields of solid mechanics, composites, physics, and materials science and summarized the state-of-the-art research results with a view to advancing the frontiers of mechanics and materials physics. Nanomaterials and heterostructures have a large fraction of their atoms at surfaces and interfaces. These atoms see a different environment to those in the interior and can have a substantial effect on the overall mechanical and physical behaviour of a material. The last decade has witnessed a growing interest in the study of surfaces and how the surface behaviour couples with that of the bulk to determine the overall system response. The papers in this proceedings cover: extension of continuum mechanics and thermodynamics to the nano-scale; multiscale simulations; surface effects in monolithic nano-scale elements and nanostructures; mechanical and physical properties of nanomaterials and heterostructures; self-assembly, etc. The

Reviews

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