

IUTAM Symposium on Mechanical Behavior and Micro-Mechanics of Nanostructured Materials

Proceedings of the IUTAM Symposium held in Beijing, China, June 27-30, 2005

This volume contains the proceedings of the IUTAM Symposium on Mechanical Behavior and Micro-mechanics of Nanostructured Materials, held in Beijing on June 27-30, 2005. The proceedings consist of approximately 30 presentations. Nano-scale, micro-scale, theoretical, experimental and numerical aspects of the subjects are covered. A wide scope of research and progress are displayed. This is the first work in print on this particular subject.

Recently, we have seen that nano-structured materials demonstrate remarkable advantages over conventional ones, particularly in mechanical behaviors. This will have a great impact on new technology and engineering in the new millennium. In accordance with this need, IUTAM decided to hold a symposium to discuss the prospect of the wonderful mechanical behaviors of nanostructured materials and their relevant micro-mechanics, to encourage the mechanics community to explore the frontier of science and technology. The aim of the symposium was to provide such a forum to all experts in both mechanics and materials sciences worldwide, to have an opportunity to exchange their research achievements and views in understanding these mechanical behaviors, exploring their applications, as well as enhancing their property designs of nanostructured materials. The IUTAM Symposium on Mechanical Behavior and Micro-mechanics of Nanostructured Materials was held successfully in Beijing, China, June 27-30, 2005. Thirty participants with different research backgrounds including mechanics, materials sciences, physics, etc. from Australia, France, Germany, Japan, Singapore, UK and USA and China presented their contributions on various aspects closely related to the subjects, displaying wide research direction and progress.



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