



Micro and Nano Mechanical Testing of Materials and Devices

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Nanoscale and nanostructured materials have exhibited different physical properties from the corresponding macroscopic coarse-grained materials due to the size confinement. As a result, there is a need for new techniques to probe the mechanical behavior of advanced materials on the small scales. *Micro and Nano Mechanical Testing of Materials and Devices* presents the latest advances in the techniques of mechanical testing on the micro- and nanoscales, which are necessary for characterizing the mechanical properties of low-dimensional materials and structures.

Written by a group of internationally recognized authors, this book covers topics such as:

- Techniques for micro- and nano- mechanical characterization;
- Size effects in the indentation plasticity;
- Characterization of low-dimensional structure including nanobelts and nanotubes;
- Characterization of smart materials, including piezoelectric materials and shape memory alloys;
- Analysis and modeling of the deformation of carbon-nanotubes.

Micro and Nano Mechanical Testing of Materials and Devices is a valuable resource for engineers and researchers working in the area of mechanical characterization of advanced materials.



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