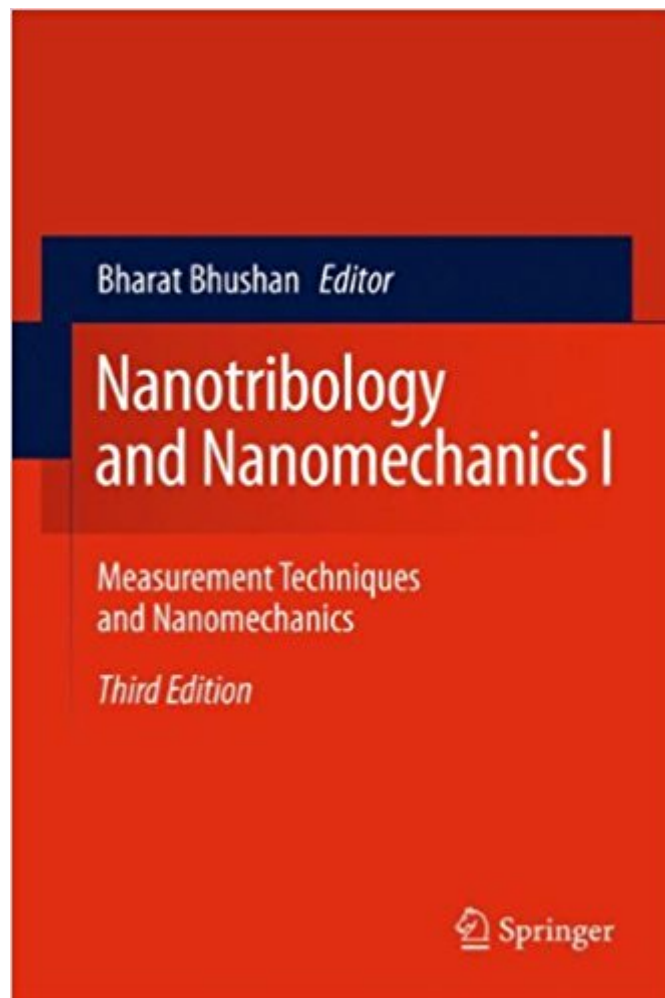




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Nanotribology And Nanomechanics I: Measurement Techniques And Nanomechanics



Synopsis

The comprehensive reference and textbook serves as a timely, practical introduction to the principles of nanotribology and nanomechanics. Assuming some familiarity with macroscopic tribology, the book comprises chapters by internationally recognized experts, who integrate knowledge of the field from the mechanics and materials-science perspectives. They cover key measurement techniques, their applications, and theoretical modelling of interfaces, each beginning their contributions with macro- and progressing to microconcepts.

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The comprehensive reference and textbook serves as a timely, practical introduction to the principles of nanotribology and nanomechanics. Assuming some familiarity with macroscopic tribology, the book comprises chapters by internationally recognized experts, who integrate knowledge of the field from the mechanics and materials-science perspectives. They cover key measurement techniques, their applications, and theoretical modelling of interfaces, each beginning their contributions with macro- and progressing to microconcepts.

In the past we published a subset of the "Springer Handbook of Nanotechnology" in two editions as graduate textbook "Nanomechanics and Nanotribology". However, the size of the book grew to 1536 pages in the second edition. In addition, the sales of were quite low: The second edition sold 322 copies in two years at 119aC--. Therefore we decided to split the book into two parts and have both POD suitable. The natural breaking point is the deviation in fundamental nanomechanical

measurement methods (AFM, STM) in the first volume and the consequences of Nanomechanics for Tribology and Lubrication.

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