

September 2009 I Hardcover I Pgs 352

List Price: \$149.00 | €105.95 |

£ 89.95

ISBN: 9780080964546

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Fundamental Principles of Engineering Nanometrology

By Richard Leach

Description

Fundamental Principles of Engineering Nanometrology provides a comprehensive overview of engineering metrology and how it relates to micro and nanotechnology (MNT) research and manufacturing. By combining established knowledge with the latest advances from the field, it presents a comprehensive single volume that can be used for professional reference and academic study.

Key Features

- Provides a basic introduction to measurement and instruments
- Thoroughly presents numerous measurement techniques, from static length and displacement to surface topography, mass and force
- Covers multiple optical surface measuring instruments and related topics (interferometry, triangulation, confocal, variable focus, and scattering instruments)
- Explains, in depth, the calibration of surface topography measuring instruments (traceability; calibration of profile and areal surface texture measuring instruments; uncertainties)
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