

Precision Nanometrology Sensors And Measuring Systems For Nanomanufacturing Springer Series In Advanced Manufacturing

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In this excellent text Professor Wei Gao from Tohoku University describes the essential aspects of a relatively new discipline: precision nanometrology. This forms a new field of dimensional metrology that is defined as the science of dimensional measurement with nanometric accuracy over a broad measurement range from micrometres to metres.

Precision Nanometrology: Sensors and Measuring Systems for ...

Precision Nanometrology describes the new field of precision nanometrology, which plays an important part in nanoscale manufacturing of semiconductors, optical elements, precision parts and similar items. It pays particular attention to the measurement of surface forms of precision workpieces and to stage motions of precision machines.

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He and his group have developed a number of optical sensors and scanning measuring systems for dimensional measurement and precision motion control. Recently, Wei Gao has been focusing his research...

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Get this from a library! Precision nanometrology : sensors and measuring systems for nanomanufacturing. [Wei Gao, Ph. D.]

Precision nanometrology : sensors and measuring systems ...

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Precision Nanometrology: Sensors and Measuring Systems for ...

Precision nanometrology : sensors and measuring systems for nanomanufacturing. [Wei Gao] -- Precision Nanometrology describes the new field of precision nanometrology, which plays an important part in nanoscale manufacturing of semiconductors, optical elements, precision parts and similar ...

Precision nanometrology : sensors and measuring systems ...

The sensors provide contact- free measurement of the actual position of the moving part (direct metrology) with sub- nanometer precision. Accuracy, linearity, resolution, stability and bandwidth are far better than with conventional nano- metrology sensors like LVDT or strain gauge sensors.

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Precision Nanometrology - Wei Gao - Häftad (9781447157434 ...

For precision length measurements in the range of nanometers up to several meters, interferometric methods are used in which the length to be measured is compared with one or more known light wavelengths.

Precision metrology - Technische Universität Ilmenau

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Starting from the fundamentals of precision measurement, the author progresses into different measurement and characterization techniques. The focus on nanometrology in engineering contexts makes this book an essential guide for the emerging nanomanufacturing / nanofabrication sector, where measurement and standardization requirements are ...

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