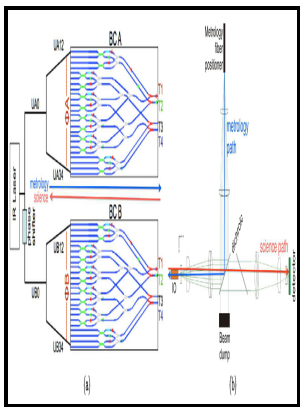
Metrology - figure and finish

SPIE--the International Society for Optical Engineering - Metrology: Figure and Finish (Proceedings of Spie): Truax, Bruce: 9780892527847: skynet2550.us.to: Books



Description: -
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Theory of distributions (Functional analysis) -- Congresses.
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Nonlinear theories -- Congresses.
Theory of distributions (Functional analysis) -- Congresses.
Choruses, Secular (Mixed voices) with instrumental ensemble
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Muṣḥafī, Ghulām Hamdānī, 1750-1824.
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Agriculture -- Africa.
Surfaces (Technology) -- Measurement -- Congresses
Optical measurements -- Congresses
Interferometry -- CongressesMetrology - figure and finish
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Proceedings of SPIE--the International Society for Optical Engineering -- v. 749Metrology - figure and finish
Notes: Includes bibliographies and author index.
This edition was published in 1987

Tags: #Skids #and #Probes #for #Surface #Finish

Correlation Between The Performance And Metrology Of Glancing

Our approach has been to concentrate on the area of metrology of grazing incidence optics and to develop instruments and techniques that can be used to improve the quality of components delivered to us. The disadvantage is that this method can not measure on surfaces with a very smooth surface roughness like a silicon wafer. For optical finish requirements better than 10 Å rms a silicon cladding is necessary.

Start to Finish

The main application is metal machined parts and tools , plastic or paper samples. Waviness is defined by surface irregularities on a larger scale lower frequency range than the roughness.

Brief Introduction to Surface Metrology

Of particular concern in optics applications is the thermal strain experienced at cryogenic temperatures. Roughness — the short-wavelength pattern of tool marks from grinding, milling or other machining processes -- is influenced by the condition and quality of the tooling.

Metrology and Inspection

The most commonly used—and perhaps the simplest measure of surface finish—is the Ra parameter, or roughness average. Early standards were reference surfaces with a known topography which could be compared to other surfaces in a qualitative way.

Surface metrology

Optical methods for surface characterization can have a high vertical z resolution, but not as high a lateral xy resolution as probe methods or electron microscopy. Skid gages have a hinged probe assembly, with the probe riding next to a relatively broad skid that also contacts the work piece. Most companies do not wish to become involved with a project that requires producing a single, very expensive, aspheric optic with surface roughness and figure tolerances that are beyond their capabilities to measure.

Surface metrology

The NSLS-II Optical Metrology and Fabrication Group has recently integrated the 1D-IBF function into an existing thin-film deposition system by adding an RF ion source to the system.

Start to Finish

This two-day workshop was motivated by the rapid evolution in the performance of x-ray and neutron sources along with requirements in optics figure and finish.

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