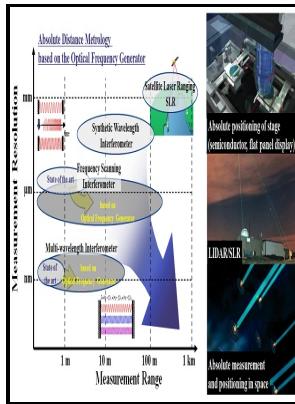


Gage block measurement process using single wavelength interferometry

U.S. Dept. of Commerce, National Bureau of Standards : for sale by the Supt. of Docs., U.S. Govt. Print. Off. - CiteSeerX — Preface



Description: -

- Interferometry.

Gage blocks -- Calibration gage block measurement process using single wavelength interferometry

- 152.

NBS monograph ;

National Bureau of Standards monograph ; 152 gage block measurement process using single wavelength interferometry

Notes: Includes bibliographical references.

This edition was published in 1975



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Tags: #Fabry

Utilizing Laser Technology in Dimensional Metrology Applications

It is important to know that these terms exist and how big they are. Relative humidity should be kept below 45 % to avoid excessive rusting of gages.

ShieldSquare

Therefore, while the present invention has been shown and described herein in what is believed to be the most practical and preferred embodiments, it is recognized that departures can be made therefrom within the scope of the invention, which is not to be limited to the details disclosed herein but is to be accorded the full scope of the claims so as to embrace any and all equivalent processes and products. Blocks falling onto other blocks will not only damage the dropped block, but will likely damage other blocks in the case. The method of claim 1, including the step of determining an offset between said coarse height and said fine height calculated for said region corresponding to each detector cell, said offset being determined with reference to one detector cell; and further including the step of adding said offset to the fine height measured for each said region of the test surface prior to performing the integration of step c.

Modernization of the Hilger & Watts gauge

Why was L numbers repeated? Note that the term horizontal integration is used herein to refer to integration steps taken to correct phase ambiguities between adjacent pixels. When assessing throughput of a particular measurement, also address the time needed to switch over from one setup to another.

A Gage block measurement process using single wavelength interferometry : Beers, John S. : Free Download, Borrow, and Streaming : Internet Archive

Having large numbers of blocks in a set allows for more combinations to reach longer lengths in smaller increments. New interferometric technique

to measure the length thickness of opaque objects using a commercial interferometer. New interferometric technique to measure the length thickness of opaque objects using a. We do not use ultrasonic cleaners because both of these solvents are flammable and we would need special hoods and other equipment for safety reasons.

Automatic Gauge Block Measurement Using Multiple Wavelength Interferometry

Overall hardware configuration for absolute length calibration of gauge blocks using the optical comb of a femtosecond laser. However, persuasive arguments in favor of this viewpoint have been made for the case of the red helium neon He-Ne laser most widely used in industry, subject to several caveats discussed at the end of this FAQ. Does NIST calibrate miscellaneous dimensional quantities, such as, plating thickness, focal length of lenses, radius of curvature, and surface plates? By using this system time dissemination is realized with an uncertainty better than 5 ms for LAN and better than 50 ms for WAN.

Fabry

The micro-CMM has a measuring volume of 245 mm x 200 mm x 175 mm. Zygō has supplied DMIs to satisfy this application for 30 years. Testing of the clocks in different operating situations is necessary.

Wavelength

These master blocks are calibrated by interferometry.

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