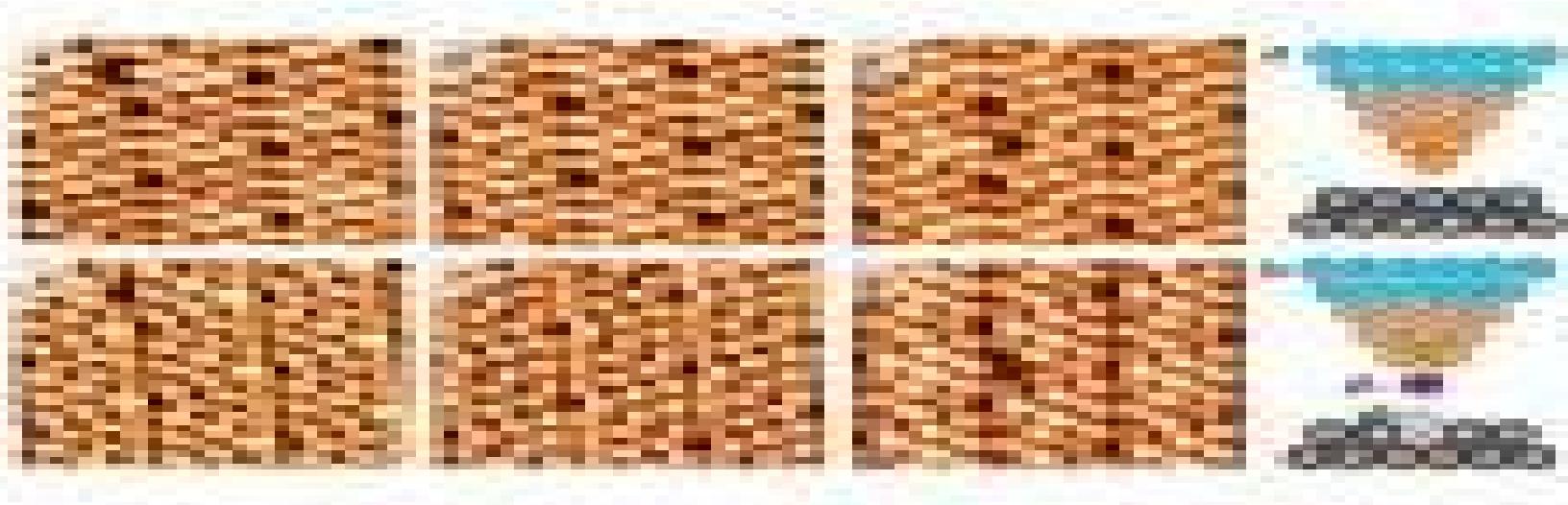


MEASUREMENT TECHNOLOGY

for Macro-Nanometer Devices

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Measurement Technology For Micro Nanometer Devices

Jianjun Gao

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Takaya,Yongsheng Gao,Michael Krystek,2008-06-12 Volume is indexed by Thomson Reuters BCI WoS Measurement

rigorously defined as ascertaining the size amount or degree of a measurand by instrumental comparison with a standard unit or by indirect calculation based upon theory is what makes science and technology different to imagination

Measurement is essential in industry commerce and daily life In the manufacturing industry in particular measurement and instrumentation technology play increasingly important roles not only in the traditional field of manufacturing but also in the new fields of micro nano technology and bioengineering This book presents recent advances in the use of measurement and instrumentation in the manufacturing industry A wide range of topics are covered including micro nano metrology precision measurements online and in process measurements surface metrology optical metrology and image processing bio measurement sensor technology intelligent measurement and instrumentation uncertainty traceability and calibration and signal processing algorithms

Optical Test and Measurement Technology and Equipment ,2006 **Measurement**

Technology and Intelligent Instruments VI Yongsheng Gao,Shuettfung Tse,Wei Gao,2005 The requirements of high precision and of high quality components and devices in meeting the needs of modern industry and society in disciplines such as semiconductors optics nanotechnology MEMS manufacturing biomedical and environmental engineering make measurement technology and intelligent instruments which sense measure and report more important than ever and essential for the rapid development of information technology *Measurement Technology and Intelligent Instruments XI*

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