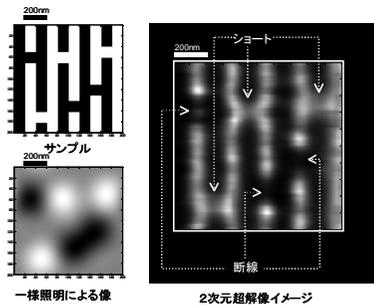




革新的な機械を生産の基礎であるナノメートル形状計測の新しい技術を開発すると同時に、測定の不確かさの推定手法およびトレーサビリティの確立を行う。

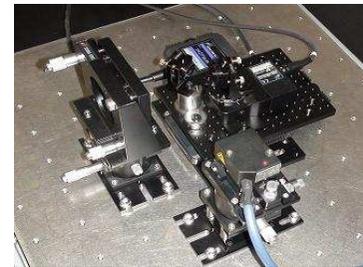
超解像による半導体欠陥検査



高橋哲

Gyogy Striker Junior Paper Award: R. Kudo et al., Fundamental Verification for 2-Dimensional Super-Resolution Optical Inspection for Semiconductor Defects by Using Standing Wave Illumination Shift, IMEKO World Congress 2009.

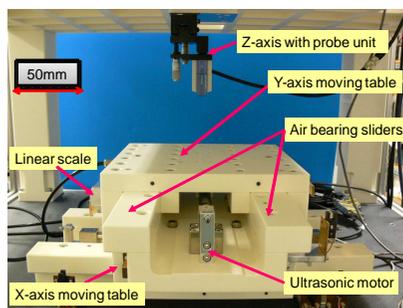
大型非球面形状のナノメートル計測



高橋哲

M. Xiao et al., Profile Measurement of Large Aspheric Optical Surface by Scanning Deflectometry with Rotatable Optical Devices - Error Analysis and Pre-experiment-, Key Eng. Materials 447-448 (2010) pp 604-608

高精度CMMの開発

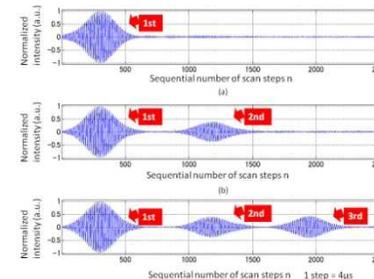


高橋哲

松本弘一

JSPE Young Researcher Award: S. Liu et al., Profile measurement of a wide-area resist surface using a multi-ball cantilever system, Precision Eng. 33, 2009, 50-55.

光周波数コムレーザのパルス干渉による絶対距離測定



松本弘一

Outstanding Paper Award, 10th ISMQC 2010: D. Wei et al., Advanced Absolute Length Metrology Based On Pulse Trains' Constructive Interference - Measurements of Meter Order with an Accuracy of Nano Order -, C1-001-1-4
D. Wei et al., Experimental observation of pulse trains' destructive interference with a femtosecond optical frequency-comb-based interferometer, Optics Letters 34 (18), 2009, 2775-2777