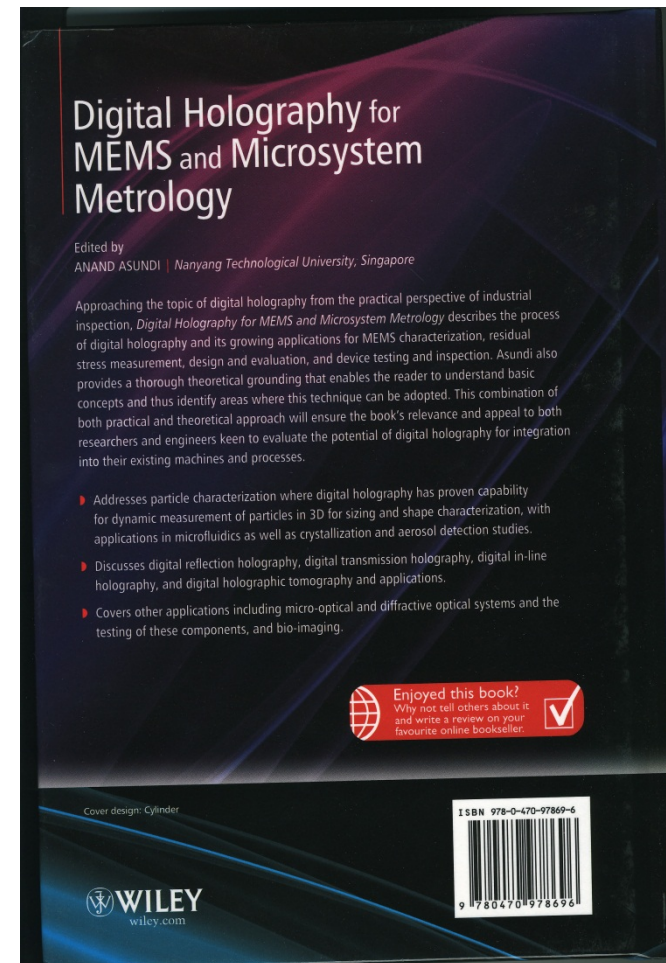
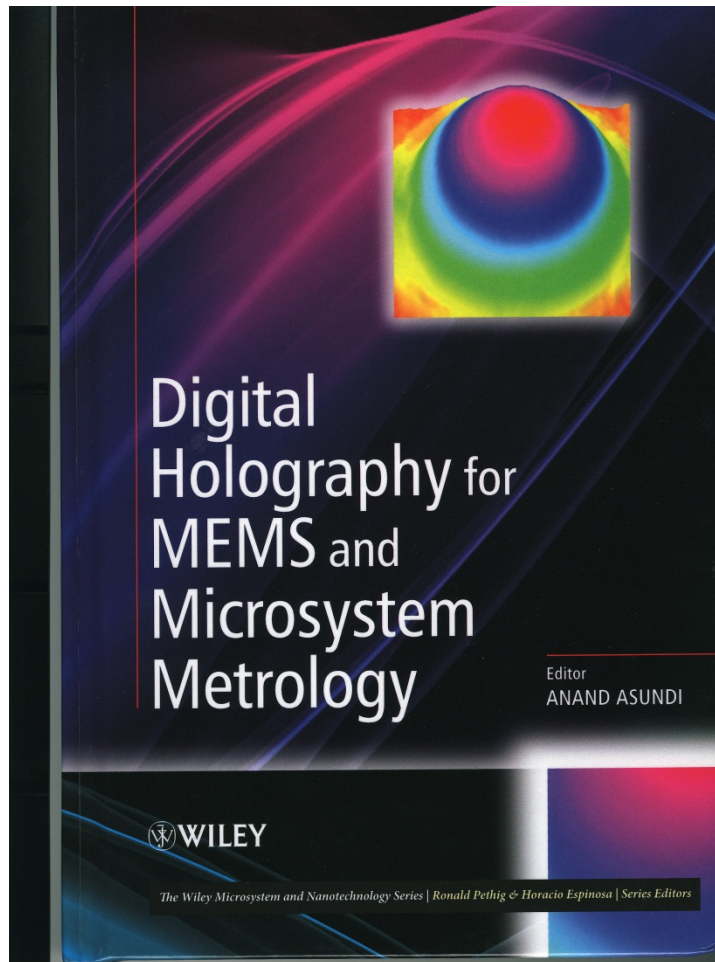


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# Digital Holscope

Digital Holscope (DH) is a new paradigm for optical imaging and metrology. Unlike conventional imaging, digital holography records the wavefront which is then reconstructed numerically to give amplitude and phase of the object. Essentially digital holography allows recording the scene first and then focusing later. This ability of digital holography to numerically reconstruct the phase of the objects, allows it to quantitatively image the optical path length or the profile of the object. This can be done over the whole-field with nanometer resolution. COLE@NTU have developed a range of holscopes (digital holography based instruments) to cover a range of applications which will be highlighted in this workshop. Demonstration of prototypes will enable greater appreciation of the system.

# Schedule

Time	Topic	Speaker	Affiliation
2:00 pm	Introduction to COLE+OPSS	Prof. Anand Asundi	Nanyang Tech. University
2:10 pm	DH for MEMS Metrology	Dr. Vijay Raj Singh	SMART, Singapore
2:30 pm	DH for Micro-optics and Bioimaging	Dr. Qu Weijuan	CAPALT, Ngee Ann Poly
2:50 pm	DH Display	Prof. Yu Yingjie	Shanghai University
3:10 pm	DH for 3D Particle Imaging	Prof. Anand Asundi	Nanyang Tech. University
3:30 pm	Tea-break + Networking		
4:00 pm	Lab Demo		