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B.Tech (Civil Engg.), Indian Institute of Technology, Bombay, 1975
M.Tech (Aero Engg), Indian Institute of Technology, Bombay, 1977
Ph.D. (Mech. Engg.) SUNY @ Stony Brook, NY, USA, 1981

Professional Experience:

Professor, School of MAE, NTU (1997-present). *Dy. Director*, Advanced Materials Research Centre, Fellow of SPIE and IES, *Professor*, Department of Mechanical Engineering, University of Hong Kong (1983-1996), *Research Fellow*, Virginia Tech, Blacksburg, USA, 1981-83. *Member*, SINGLAS – NDT Accreditation Committee (2002-Present) *Conference Chair* for the following international conferences, ICEM (1996, 2000, 2004, 2009), SPIE – Photonics Europe – Micro and Nano metrology (2004, 2006, 2008, 2010) and others

Selected Relevant Publications (Top Ten Cited):

1. Xu, L., Peng, X., Miao, J., Asundi, A.K. Studies of digital microscopic holography with applications to microstructure, Testing, (2001) *Applied Optics*, 40 (28), pp. 5046-5051.
2. Leng, J., Asundi, A. Structural health monitoring of smart composite materials by using EFPI and FBG sensors, (2003) *Sensors and Actuators, A: Physical*, 103 (3), pp. 330-340.
3. Asundi, A. Phase shifting in photoelasticity, (1993) *Experimental Techniques*, 17 (1), pp. 19-23.
4. Asundi, A., Zhou, W., Unified calibration technique and its applications in optical triangular profilometry, (1999) *Applied Optics*, 38 (16), pp. 3556-3561.
5. Xu, L., Miao, J., Asundi, A., Properties of digital holography based on in-line configuration, (2000) *Optical Engineering*, 39 (12), pp. 3214-3219.
6. Asundi, A., Choi, A.Y.N., Fiber metal laminates: An advanced material for future aircraft, (1997) *Journal of Materials Processing Technology*, 63 (1-3), pp. 384-394.
7. Xie, H., Kishimoto, S., Asundi, A., Boay, C.G., Shinya, N., Yu, J., Ngoi, B.K.A. ,In-plane deformation measurement using the atomic force microscope moiré method, (2000) *Nanotechnology*, 11 (1), pp. 24-29.
8. Leng, J.S., Asundi, A. Real-time cure monitoring of smart composite materials using extrinsic Fabry-Perot interferometer and fiber Bragg grating sensors, (2002) *Smart Materials and Structures*, 11 (2), pp. 249-255.
9. Peng, X., Asundi, A., Chen, Y., Xiong, Z., Study of the mechanical properties of Nd:YVO4 crystal by use of laser interferometry and finite-element analysis, (2001) *Applied Optics*, 40 (9), pp. 1396-1403.

Summary of Publications

Web of Science listed papers (440); Invited/Plenary conference papers (30); Book Chapters (22). SCI citation: 1475 times, H-index: 18.

Current research grants

Vibration-insensitive TruImage System for Quantitative Inspection of Micro-optics, NRF-TRD, 2010-2012, \$591,000

Lensless microscope for MEMS Imaging and Characterization, NRF POC, 2009 to 2010 S205,000
Monitoring of Crystallization Processes through Digital Holography, MOE AcRF, 2008 to 2011, \$250,000

Three-dimensional Real-time Uninvasive Imaging and Evaluation (TruImage) System for Morphology Analysis of PDT-mediated Apoptotic Cells, MoE, IF Fund, S\$ 500,000

Novel Optical Nanoprobe for Nanometrology based on Surface Plasmon Polaritons, ASTAR, 2007 to 2010, \$537,000

Research Interests:

Prof Anand Asundi's research interests are broadly in the area of Experimental Mechanics with specific interests in Photomechanics for bio and nanomechanics applications, Optical Engineering, Non-Destructive Testing and Smart Structures, Fiber Optic Sensor and other related areas. He has published extensively, chaired numerous conferences and delivered invited and plenary talks in these areas. He is also active in both regional and international scientific communities being the Chairman for the Asian Committee on Experimental Mechanics, Founding Chair of Optics and Photonics Society of Singapore and Board Member of SPIE.

Recent Collaborators: Prof. W. Osten, ITO, Stuttgart, Germany; Prof. C. Gorecki, CNRS Besancon, France; Prof. K. Arakawa, Kyushu University, Japan, Prof. Yu Yingjie, Shanghai University, PRC, Prof. Tian Ailing, Xian Tech University, PRC, Prof Leng Jinsong, Harbin Institute of Technology, China, Prof Xie Huimin, Tsinghua University, PRC, Dr Gopal Hegde, IISc, Bangalore, India, Prof. K.Mohan, IIT Chennai, India, Prof. H. Tippur, Auburn University, USA.

List of Advisees:

PhD (graduated since 2000): Vijay Raj Singh (2008), Li Bingqing (2007), Li Chongxiang (2005), Xu Lei (2003), Wang Jun (2002) Peng Xiaoyuan (2002), Liu Tong (2002), Anil Kishen (2002), Zhang Jingbo (2000)

Master of Engineering (graduated): Paul Neo (2003); Oh Kim Eng (2001); Liu Yu (2000); Chen Jun Wei (2000); Zhou Wensen (2000)

Current student mentoring: Ravi Kumar, Yan Hao, Ng Chi Seng, Kapil Dev, Zhu Hui and Huang Lei (all PhD)

Research Staff: V.M. Murukeshan, Tian Feng, Xie Huimin, Zhao Bing, Ma Jianjun, Anil Kishen, Shelly John, Qian Kemao, Wang Jun, Vijay Raj Singh, Wang Pin, Qu Weijuan, Pan Bing.

Graduate Advisor: Prof. Fupen Chiang, SUNY@ Stony Brook, New York, USA.