

Monograph 7

Physics and Chemistry of Micro-Nanotribology

Table of Contents

Chapter 1: Introduction—*S. Wen, J. Luo, Y. Hu*

Chapter 2: Measuring Techniques—*Dan Guo, DanJiangbin GuoLuo, and Yuanzhong Hu*

Chapter 3: Thin Film Lubrication-Experimental Study—*J. Luo, S. Wen*

Chapter 4: Thin Film Lubrication-Theoretical Modeling—*C. Zhang*

Chapter 5: Molecule Films and Boundary Lubrication—*Y. Hu*

Chapter 6: Gas Lubrication in Nano-Gap—*M. Yonggang*

Chapter 7: Mixed Lubrication At Micro-Scale—*W.-Z. Wang, Y. Hu, J. Luo*

Chapter 8: Thin Solid Coatings—*C. Zhang, T. Shao*

Chapter 9: Friction and Adhesion—*Y. Hu*

Chapter 10: Microscale Friction and Wear/Scratch—*X. Lu, J. Luo*

Chapter 11: Tribology in Magnetic Recording System—*J. Luo, W. Lee, Y. Hu*

Chapter 12: Tribology in Ultra-Smooth Surface Polishing—*J. Luo, X. Lu, G. Pan, J. Xu*