



## Contents

<i>Foreword</i>	v
<i>Preface from the Editor-in-Chief</i>	vii
<i>Preface to Volume 1</i>	xi
<i>About the Editor-in-Chief</i>	xiii
<i>About the Editor</i>	xv
Chapter 1. Electrostatic Interactions Between Colloidal Particles <i>Vladimir Lobaskin</i>	1
Chapter 2. Probing Materials With Electromagnetic Waves: From Bulk Materials to Microstructures <i>N. R. Anderson, R. E. Camley, and K. L. Livesey</i>	39
Chapter 3. Electromagnetics for Quantitative Magnetic Resonance Imaging <i>Stephen E. Russek, Karl F. Stupic, Joshua R. Biller, Michael A. Boss, Kathryn E. Keenan, and Elizabeth Mirowski</i>	95
Chapter 4. Notch-Induced Domain Wall Pinning in Ferromagnetic Nanowires <i>G. Carbou</i>	149
Chapter 5. Modeling of Nanostructured Magnetic Field Sensors <i>Alessandra Manzin</i>	181

Chapter 6. Spin-Transfer Torque-Driven Magnetization Dynamics in Magnetic Random Access Memory	211
<i>Peong-Hwa Jang, Seung-Jae Lee, Seo-Won Lee, and Kyung-Jin Lee</i>	
Chapter 7. Electromagnetic Waves in Canted Magnets	231
<i>R. Macêdo and Robert L. Stamps</i>	
Chapter 8. Magnetic Normal Modes of Nanopatterned Magnets Investigated by Both Wavevector- and Space-Resolved Brillouin Light Scattering Spectroscopy	263
<i>Gianluca Gubbiotti, Marco Madami, Federico Montoncello, Yue Li, and Robert L. Stamps</i>	
Chapter 9. Standard Problems in Micromagnetics	285
<i>Donald Porter and Michael Donahue</i>	
Chapter 10. Hard Magnets	325
<i>Josef Fidler</i>	
<i>Index</i>	349