Contents

Preface xiii

Acknowledgments xv

Introduction xvii

PART I Setting the Stage 1

Chapter 1 The Academic Enterprise 3

   Unlike Any Other Institution 4
   Key Characteristics 6
   Governance and Decision Making 13
   Institutional Issues 18
   A New Look at Scholarship 20
   Seven Sample Schools 22
   Vignette #1: A Place for Scholarship in Undergraduate Education 27
   Summary 29
   Appendix: Doctorate-Granting Institutions 30
   References 32

Chapter 2 Science and Engineering in Higher Education 37

   Comparisons Across the Institution 38
   Departments of Science 47
   Departments of Engineering 48
   Interdisciplinary Collaboration 51
   Scholarship Across the Disciplines 53
   Vignette #2: Science at a Metropolitan University 54
   Summary 56
   References 57