

## Contents

<i>Illustrations</i>	page vii
<i>Preface</i>	ix
<i>Acknowledgments</i>	xiii
PART I. SOMETHING NEW UNDER THE SUN	
1 Introduction	3
2 Inventing the Discovery Machine	22
3 The New Telescopic Evidence	48
4 The “Far Seeing Looking Glass” Goes to China	72
5 The Discovery Machine Goes to the Muslim World	115
PART II. PATTERNS OF EDUCATION	
6 Three Ideals of Higher Education: Islamic, Chinese, and Western	145
PART III. SCIENCE UNBOUND	
7 Infectious Curiosity I: Anatomy and Microbiology	171
8 Infectious Curiosity II: Weighing the Air and Atmospheric Pressure	209
9 Infectious Curiosity III: Magnetism and Electricity	234
10 Prelude to the Grand Synthesis	253
11 The Path to the Grand Synthesis	267
12 The Scientific Revolution in Comparative Perspective	292
Epilogue: Science, Literacy, and Economic Development	301
<i>Selected References</i>	321
<i>Index</i>	341