

CHAPTER 16

TOWARD A NEW HEAVEN AND A NEW EARTH: THE SCIENTIFIC REVOLUTION AND THE EMERGENCE OF MODERN SCIENCE

CHAPTER OUTLINE

- I. Background to the Scientific Revolution
 - A. Ancient Authors and Renaissance Artists
 - B. Technological Innovations and Mathematics
 - C. Renaissance Magic
- II. Toward a New Heaven: A Revolution in Astronomy
 - A. Copernicus
 - B. Brahe
 - C. Kepler
 - D. Galileo
 - 1. Galileo and the Inquisition
 - 2. Galileo and the Problem of Motion
 - E. Newton
 - 1. Newton and the Occult
 - 2. Universal Law of Gravitation
- III. Advances in Medicine and Chemistry
 - A. Paracelsus
 - B. Vesalius
 - C. William Harvey
 - D. Chemistry
- IV. Women in the Origins of Modern Science
 - A. Margaret Cavendish
 - B. Maria Merian
 - C. Maria Winkelmann
 - D. Debates on the Nature of Women
- V. Toward a New Earth: Descartes, Rationalism, and a New View of Humankind
- VI. The Scientific Method and the Spread of Scientific Knowledge
 - A. The Scientific Method
 - 1. Francis Bacon
 - 2. Descartes
 - B. Spread of Scientific Knowledge
 - 1. The Scientific Societies
 - 2. Science and Society
 - C. Science and Religion in the Seventeenth Century
 - 1. Spinoza
 - 2. Pascal
- VII. Conclusion