

# Contents

<i>Preface</i>	ix
----------------	----

## PART I: GREEK PHYSICS

1. Matter and Poetry	3
2. Music and Mathematics	15
3. Motion and Philosophy	22
4. Hellenistic Physics and Technology	31
5. Ancient Science and Religion	44

## PART II: GREEK ASTRONOMY

6. The Uses of Astronomy	55
7. Measuring the Sun, Moon, and Earth	63
8. The Problem of the Planets	77

## PART III: THE MIDDLE AGES

9. The Arabs	103
10. Medieval Europe	124

## PART IV: THE SCIENTIFIC REVOLUTION

11. The Solar System Solved	147
12. Experiments Begun	189

13. Method Reconsidered	201
14. The Newtonian Synthesis	215
15. Epilogue: The Grand Reduction	256
<i>Acknowledgments</i>	269
<i>Technical Notes</i>	271
<i>Endnotes</i>	367
<i>Bibliography</i>	385
<i>Index</i>	395