

Preface

010 • *Times by Umberto Eco*

1 • The Creation of Time

018 *The Creation of Time*

2 • The Measurement of Time

030 *The Sun* • 038 *The Movement of the Sun and Moon* •
060 *Calendars* • 084 *Seasons* • 100 *Non-Mechanical Time: By Night* •
106 *Non-Mechanical Time: By Day* • 122 *Non-Mechanical Time: Using the Globe* •
124 *Non-Mechanical Time: Intervals* • 128 *Non-Mechanical Time: Setting the Hours* •
138 *Mechanical Time: Models of the Heavens* • 140 *Mechanical Time: Domestic Timekeepers* •
146 *Mechanical Time: Standardizing Time* • 152 *Mechanical Time: Clocks for Science* •
158 *Mechanical Time: Sumptuous Clocks*

034 • **From Observation to Record: Astronomy in Prehistory and the Early Civilizations** by *John North*

042 • **World Cultures and Time I**
Time in India

048 • **The Principles and Uses of Calendars** by *Silke Ackermann*

052 • **World Cultures and Time II**
Mesoamerican and Andean Timekeeping and Calendars
by *Anthony Aveni*

056 • **World Cultures and Time III**
Time and Space in Islam by *David A. King*

076 • **World Cultures and Time IV**
Cyclical and Linear Concepts of Time in China
by *Michael Loewe*

080 • **World Cultures and Time V**
Cycles, Seasons and Stages of Life: Time in a Japanese
Context by *Joy Hendry*

092 • **World Cultures and Time VI**
Inuit Time by *John MacDonald*

096 • **Of Spheres and Shadows** by *Elly Dekker*

132 • **Mechanical Timekeeping in Europe: The Early Stages**

134 • **The Growth of Modern Timekeeping** by *Jonathan Betts*

3 • The Depiction of Time

170 *Time Personified* • 182 *Past, Present and Future* •
206 *Art and Time*

186 • **The Image of Vanitas: Efflorescence and Evanescence**
by *Ivan Gaskell*

190 • **Time and the Portrait** by *Lorne Campbell*

194 • **Seasons and Moments: Time and Nineteenth-Century Art**
by *John House*

198 • **“These Fragments I have Shored against my Ruins”**
by *Marcia Pointon*

202 • **Art and Time in the Twentieth Century** by *Dawn Ades*

4 • The Experience of Time

218 *Music and Time* • 224 *Human Time* • 230 *Rites and Rituals* •
254 *Time and History* • 272 *Wrinkles in Time*

214 • **Music and Time** by *Iain Fenlon*

220 • **Does Time Heal? Time in the History of Medicine**
by *Ken Arnold*

240 • **The History of Anniversaries: Time, Number and Sign**
by *E.H. Gombrich*

246 • **Time and History** by *Felipe Fernández-Armesto*

250 • **Geologists' Time: A Brief History** by *Martin Rudwick*

264 • **World Cultures and Time VII**
Australian Aboriginal Concepts of Time by *Howard Morphy*

268 • **World Cultures and Time VIII**
Egyptian Time by *Anthony Spalinger*

5 • The End of Time

288 *The End of Time*

284 • **Understanding the Beginning and the End** by *Martin Rees*

296 *Lenders* • 297 *Bibliography* • 302 *Index* • 304 *Photographic Credits*

Preface

010 • *Times by Umberto Eco*

1 • The Creation of Time

018 *The Creation of Time*

2 • The Measurement of Time

030 *The Sun* • 038 *The Movement of the Sun and Moon* •
 060 *Calendars* • 084 *Seasons* • 100 *Non-Mechanical Time: By Night*
 106 *Non-Mechanical Time: By Day* • 122 *Non-Mechanical Time:
 Using the Globe* • 124 *Non-Mechanical Time: Intervals* •
 128 *Non-Mechanical Time: Setting the Hours* • 138 *Mechanical
 Time: Models of the Heavens* • 140 *Mechanical Time: Domestic
 Timekeepers* • 146 *Mechanical Time: Standardizing Time* •
 152 *Mechanical Time: Clocks for Science* • 158 *Mechanical Time:
 Sumptuous Clocks*

034 • *From Observation to Record: Astronomy in Prehistory and
 the Early Civilizations by John North*

042 • *World Cultures and Time I*
 Time in India

048 • *The Principles and Uses of Calendars by Silke Ackermann*

052 • *World Cultures and Time II*
 Mesoamerican and Andean Timekeeping and Calendars
by Anthony Aveni

056 • *World Cultures and Time III*
 Time and Space in Islam *by David A. King*

076 • *World Cultures and Time IV*
 Cyclical and Linear Concepts of Time in China
by Michael Loewe

080 • *World Cultures and Time V*
 Cycles, Seasons and Stages of Life: Time in a Japanese
 Context *by Joy Hendry*

092 • *World Cultures and Time VI*
 Inuit Time *by John MacDonald*

096 • *Of Spheres and Shadows by Elly Dekker*

132 • *Mechanical Timekeeping in Europe: The Early Stages*

134 • *The Growth of Modern Timekeeping by Jonathan Betts*

3 • The Depiction of Time

170 *Time Personified* • 182 *Past, Present and Future* •
 206 *Art and Time*

186 • *The Image of Vanitas: Efflorescence and Evanescence
 by Ivan Gaskell*

190 • *Time and the Portrait by Lorne Campbell*

194 • *Seasons and Moments: Time and Nineteenth-Century Art
 by John House*

198 • *“These Fragments I have Shored against my Ruins”
 by Marcia Pointon*

202 • *Art and Time in the Twentieth Century by Dawn Ades*

4 • The Experience of Time

218 *Music and Time* • 224 *Human Time* • 230 *Rites and Rituals* •
 254 *Time and History* • 272 *Wrinkles in Time*

214 • *Music and Time by Iain Fenlon*

220 • *Does Time Heal? Time in the History of Medicine
 by Ken Arnold*

240 • *The History of Anniversaries: Time, Number and Sign
 by E.H. Gombrich*

246 • *Time and History by Felipe Fernández-Armesto*

250 • *Geologists’ Time: A Brief History by Martin Rudwick*

264 • *World Cultures and Time VII*
 Australian Aboriginal Concepts of Time *by Howard Morphy*

268 • *World Cultures and Time VIII*
 Egyptian Time *by Anthony Spalinger*

5 • The End of Time

288 *The End of Time*

284 • *Understanding the Beginning and the End by Martin Rees*

296 *Lenders* • 297 *Bibliography* • 302 *Index* • 304 *Photographic
 Credits*