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advanced level are indicated by; 6.8 A brief return to realism; Preface; Acknowledgments; Introduction; I Nicolaus Copernicus: The Loss of Centrality; 1 Ptolemy and Copernicus; 2 A Clash of Two Worldviews; 2.1 The geocentric worldview; 2.2 Aristotle's cosmology; 2.3 Ptolemy's geocentrism; 2.4 A philosophical aside: Outlook; 2.5 Shaking the presuppositions: Some medieval developments; 3 The Heliocentric Worldview; 3.1 Nicolaus Copernicus; 3.2 The explanation of the seasons; 3.3 Copernicus and the Copernican turn  
3.3.1 A philosophical aside: From empirical adequacy to theoretical validity  
3.4 Copernicus consolidated: Kepler and Galileo; 4 Copernicus was not a Scientific Revolutionary; 4.1 The Copernican method; 4.2 The relativity of motion; 5 The Transition to Newton; 5.1 On hypotheses; 6 Some Philosophical Lessons; 6.1 The loss of centrality; 6.2 Was Copernicus a realist?; 6.2.1 Lessons for instrumentalism and realism; 6.3 Modern realism; 6.4 The underdetermination of theories by evidence; 6.4.1 The Duhem-Quine thesis; -> 6.4.2 The power of constraints; 6.5 Theories, models, and laws  
-> 6.5.1 Theories and models-> 6.5.2 Laws of nature, laws of science; -> 6.5.3 Philosophical views of laws; -> 6.5.3.1 The inference view; -> 6.5.3.2 The regularity view; -> 6.5.3.3 The necessitarian view; -> 6.5.3.4 The structural view; 7 Copernicus and Scientific Revolutions; 8 The Anthropic Principle: A Reversal of the Copernican Turn?; Reading List; Essay Questions; II Charles Darwin: The Loss of Rational Design; 1 Darwin and Copernicus; 2 Views of Organic Life; 2.1 Teleology; 2.1.1 The Great Chain of Being; 2.1.2 Design arguments; 2.1.3 Jean Baptiste Lamarck; 3 Fossil Discoveries  
3.1 Of bones and skeletons  
3.2 The antiquity of man; 4 Darwin's Revolution; 4.1 The Darwinian view of life; 4.1.1 Principles of evolution; 4.2 The descent of man; 5 Philosophical Matters; 5.1 Philosophical presuppositions: Mechanical worldview, determinism, materialism; 5.2 From biology to the philosophy of mind; 5.2.1 Empiricism; 5.2.2 Philosophy of mind; 5.2.3 Emergent minds; 5.3 The loss of rational design; 5.4 Intelligent design (ID); 6 A Question of Method; 6.1 Darwinian inferences; 6.2 Philosophical empiricism; 6.3 Some principles of elimination  
-> 6.4 Essential features of eliminative induction  
6.5 Falsifiability or testability?; 6.6 Explanation and prediction; -> 6.7 Some models of scientific explanation; -> 6.7.1 Hempel's models; -> 6.7.2 Functional models; -> 6.7.3 Causal models; 6.7.3.1 A counterfactual-interventionist account; 6.7.3.2 A conditional model of causation; -> 6.7.4 Structural explanations; 6.9 Darwin and scientific revolutions; 6.9.1 Philosophical consequences; Reading List; Essay Questions; III Sigmund Freud: The Loss of Transparency; 1 Copernicus, Darwin, and Freud; 2 Some Views of Humankind  
2.1 Enlightenment views of human nature

## Sommario/riassunto

Using Copernicanism, Darwinism, and Freudianism as examples of scientific traditions, Copernicus, Darwin and Freud takes a philosophical look at these three revolutions in thought to illustrate the connections between science and philosophy. Shows how these revolutions in thought lead to philosophical consequences. Provides extended case studies of Copernicanism, Darwinism, and Freudianism. Integrates the history of science and the philosophy of science like no other text. Covers both the philosophy of natural and social science in one volume.