1. Record Nr. UNINA9910810206803321 Autore Andersen Hanne <1964-> Titolo The cognitive structure of scientific revolutions / / Hanne Andersen, Peter Barker, Xiang Chen Cambridge:,: Cambridge University Press,, 2006 Pubbl/distr/stampa 1-107-15546-0 **ISBN** 1-280-48041-6 9786610480418 0-511-22036-7 0-511-22127-4 0-511-21930-X 0-511-31465-5 0-511-49840-3 0-511-21998-9 Edizione [1st ed.] Descrizione fisica 1 online resource (xvii, 199 pages): digital, PDF file(s) Disciplina 509/.04 Science - Philosophy - History - 20th century Soggetti Science - History - 20th century Paradigm (Theory of knowledge) Cognition Constructivism (Philosophy) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from publisher's bibliographic system (viewed on 05 Oct 2015). Includes bibliographical references (p. 181-194) and index. Nota di bibliografia Nota di contenuto : 1. Revolutions in science and science studies -- : 2. Kuhn's theory of concepts -- ; 3. Representing concepts by means of dynamic frames --; 4. Scientific change -- ; 5. Incommensurability -- ; 6. The Copernican revolution --; 7. Realism, history, and cognitive studies of science. Thomas Kuhn's Structure of Scientific Revolutions became the most Sommario/riassunto widely read book about science in the twentieth century. His terms 'paradigm' and 'scientific revolution' entered everyday speech, but they remain controversial. In the second half of the twentieth century, the new field of cognitive science combined empirical psychology,

computer science, and neuroscience. In this book, the theories of

concepts developed by cognitive scientists are used to evaluate and extend Kuhn's most influential ideas. Based on case studies of the Copernican revolution, the discovery of nuclear fission, and an elaboration of Kuhn's famous 'ducks and geese' example of concept learning, this volume, first published in 2006, offers accounts of the nature of normal and revolutionary science, the function of anomalies, and the nature of incommensurability.