

1. Record Nr.	UNINA9910975338403321
Titolo	Companion to Science in the twentieth century // edited by John Krige and Dominique Pestre
Pubbl/distr/stampa	London : , : Routledge, , 2003
ISBN	1-136-48332-2 1-136-48339-X 1-315-01560-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (979 p.)
Collana	Routledge world reference series
Altri autori (Persone)	KrigeJohn PestreDominique
Disciplina	509.04
Soggetti	Science -- History -- 20th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published in The Netherlands by Routledge 1997. First published in paperback 2003--T.p. verso.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page ; Copyright Page ; TABLE OF CONTENTS; List of Figures ; List of Tables ; List of Contributors; Introduction; CHAPTER I Historiography of ScienceAn American Perspective; CHAPTER 2 What is Science?; CHAPTER 3 On Seeing Brockenspectres Sex and Gender in Twentieth-Century Science; CHAPTER 4 Science, Political Power and the State; CHAPTER 5 Crafting and Disciplining the Tropics Plant Science in the French Colonies; CHAPTER 6 The Management of Society by Numbers; CHAPTER 7 Scientific Management and the Production Process CHAPTER 8 The Discovery of Growth Statistical Glimpses of Twentieth-Century ScienceCHAPTER 9 Academic Research, Technical Change and Government Policy; CHAPTER 10 Science and the UniversityPatterns from the US Experience in the Twentieth Century; CHAPTER 11 Science, Scientists, and the Military; CHAPTER 12 Innovation and the Modern Corporation From Heroic Invention to Industrial Science; CHAPTER 13 The Transformation of the Pharmaceutical Industry in the Twentieth Century; CHAPTER 14 The History of Electronics From Vacuum Tubes to Transistors CHAPTER 15 Science in Public Policy A History of High-Level Radioactive Waste ManagementCHAPTER 16 From Eugenics to Genetic

Manipulation; CHAPTER 17 In the Name of Science; CHAPTER 18 Science Fiction and Science in the Twentieth Century; CHAPTER 19 Seeing and Picturing Visual Representation in Twentieth-Century Science; CHAPTER 20 The Earth Sciences and Geophysics; CHAPTER 21 Neo-Darwinism and Natural History; CHAPTER 22 Clinical Research; CHAPTER 23 Cancer The Century of the Transformed Cell; CHAPTER 24 A Science 'Dans Le Siecle' Immunology or the Science of Boundaries CHAPTER 25 The Molecular Transformation of Twentieth-Century Biology CHAPTER 26 Biochemistry, Molecules and Macromolecules; CHAPTER 27 Polymer Chemistry; CHAPTER 28 Atomic and Molecular Science 1900-1960; CHAPTER 29 Solid State Science; CHAPTER 30 From 'Elementary' to 'Fundamental' Particles; CHAPTER 31 Computer Science The Search for a Mathematical Theory; CHAPTER 32 Astronomy; CHAPTER 33 Mathematics in the Twentieth Century; CHAPTER 34 Material Culture, Theoretical Culture and Delocalization CHAPTER 35 Biologists at Work Experimental Practices in the Twentieth-Century Life Sciences CHAPTER 36 Mastering Nature and Yeoman Agricultural Science in the Twentieth Century; CHAPTER 37 The Role of Physical Instrumentation in Structural Organic Chemistry; CHAPTER 38 Physics Instruments in the Twentieth Century; CHAPTER 39 Science in the United Kingdom A Study in the Nationalization of Science; CHAPTER 40 Russian Science in the Twentieth Century; CHAPTER 41 Twentieth-Century German Science Institutional Innovation and Adaptation; CHAPTER 42 Science in the United States CHAPTER 43 Science in Latin America

---

#### Sommario/riassunto

With over forty chapters, written by leading scholars, this comprehensive volume represents the best work in America, Europe and Asia. Geographical diversity of the authors is reflected in the different perspectives devoted to the subject, and all major disciplinary developments are covered. <BR>There are also sections concerning the countries that have made the most significant contributions, the relationship between science and industry, the importance of instrumentation, and the cultural influence of scientific modes of thought. Students and professionals will come to appreciate how, and why

---