1. Record Nr. UNINA9910455857803321

Autore Rosenberg Nathan <1927->

Titolo Studies on science and the innovation process [[electronic resource]]:

selected works / / by Nathan Rosenberg

Singapore; ; Hackensack, NJ, : World Scientific, c2010 Pubbl/distr/stampa

9786612758089 981-4273-59-7

1-282-75808-X

Descrizione fisica 1 online resource (xvi, 412 p.): ill

Disciplina 338.0640973

Technological innovations - Economic aspects - United States Soggetti

Electronic books.

Lingua di pubblicazione Inglese

**ISBN** 

**Formato** Materiale a stampa

Monografia Livello bibliografico

Note generali Bibliographic Level Mode of Issuance: Monograph

Nota di bibliografia Includes bibliographical references.

ch. 1. Introduction -- ch. 2. The commercial exploitation of science by Nota di contenuto

American industry -- ch. 3. Academic entrepreneurship -- ch. 4. The economic impact of scientific instrumentation developed in academic laboratories -- ch. 5. Economic development and the transfer of technology: some historical perspectives -- ch. 6. A general: Purpose technology at work: The Corliss steam engine in the late nineteenthcentury United States (with Manuel Trajtenberg) -- ch. 7. The role of electricity in industrial development -- ch. 8. Improvement upon improvement: long after innovation -- ch. 9. Innovation and the chainlinked model (with Stephen J. Kline) -- ch. 10. Endogenous forces in twentieth-century America -- ch. 11. Why do firms do basic research (with their own money)? -- ch. 12. From the scalpel to the scope : endoscopic innovations in gastroenterology, gynecology, and surgery (with Annetine C. Gelijns) -- ch. 13. Capturing the unexpected benefits of medical research (with Annetine C. Gelijns and Alan Moskowitz) -ch. 14. Some critical episodes in the progress of medical ilnnovation: an Anglo-American perspective -- ch. 15. Chemical engineering as a general purpose technology -- ch. 16. Technological change in

chemicals: the role of university-industry relations -- ch. 17. Economic experiments -- ch. 18. Aeronautical engineering -- ch. 19. Schumpeter

and history.

## Sommario/riassunto

Science and technology are intertwined in the twentieth century. However, little attention has been paid to the forces that have brought about these phenomena. Many writers have taken it for granted that causality runs from science to technology. This book suggests that history and empirical evidence lead to a reality that is far more complex.