

1. Record Nr.	UNINA9910820987403321
Autore	Brush Stephen G.
Titolo	Making 20th century science : how theories became knowledge // Stephen G. Brush with Ariel Segal
Pubbl/distr/stampa	New York, New York : , : Oxford University Press, , 2015 ©2015
ISBN	0-19-026694-5 0-19-997851-4
Descrizione fisica	1 online resource (553 p.)
Disciplina	509.04 509/.04
Soggetti	Science - Methodology - History - 20th century Science - History - 20th century Science - Methodology - History - 19th century Science - History - 19th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""4.2 The Rise of Social Constructionism""""4.3 The Fall of Social Constructionism""; ""4.4 Postmortem""; ""4.5 Consequences for Science Studies""; ""Part Two Atoms, Molecules, and Particles""; ""5 Mendeleeva €?s Periodic Law""; ""5.1 Mendeleev and the Periodic Law""; ""5.2 Novel Predictions""; ""5.3 Mendeleeva€?s Predictions""; ""5.4 Reception By Whom?""; ""5.5 Tests of Mendeleeva€?s Predictions""; ""5.6 Before the Discovery of Gallium""; ""5.7 The Impact of Gallium and Scandium""; ""5.8 The Limited Value of Novel Predictions""; ""5.9 Implications of the Law""; ""5.10 Conclusions"" ""7.8 Reception of Neo-Newtonian Optics before 1923""
Sommario/riassunto	Historically, the scientific method has been said to require proposing a theory, making a prediction of something not already known, testing the prediction, and giving up the theory (or substantially changing it) if it fails the test. A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood. This process is widely treated as the conventional method of achieving scientific progress, and was used

throughout the twentieth century as the standard route to discovery and experimentation. But does science

---