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Titolo	Gears : Volume 3: A Concise History // by Vincenzo Vullo
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Descrizione fisica	1 online resource (XVI, 246 p. 110 illus.)
Collana	Springer Series in Solid and Structural Mechanics, , 2195-3511 ; ; 12
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Soggetti	Technology—History Vibration Dynamical systems Dynamics Machinery History of Technology Vibration, Dynamical Systems, Control Machinery and Machine Elements
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- The first pre-scientific age: from the dawn of technological man to the birth of science -- The first scientific age and birth of the science: from the beginning of Hellenism to the diaspora of scientists of the museum of Alexandria -- The second pre-scientific age: from the diaspora of Alexandrian scientists to the Renaissance -- The second scientific age: from Galileo to today.
Sommario/riassunto	This book provides a compact history of gears, by summarizing the main stages of their development and the corresponding gradual acquisition of engineering expertise, from the antiquity to the Renaissance and the twentieth century. This brief history makes no claim to be exhaustive, since the topic is so extensive, complex and fascinating that it deserves an entire encyclopedia. Despite its brevity, the book debunks a number of popular misconceptions, such as the belief that the first literary description of a gear was supplied by

Aristotle. It disproves not only this myth, but also other peremptory statements and/or axiomatic assumptions that have no basis in written documents, archaeological findings or other factual evidence. The book is chiefly intended for students and lecturers, historians of science and scientists, and all those who want to learn about the genesis and evolution of this topic.
