Record Nr. UNINA9910786729503321 Autore Dawid Richard <1966-> **Titolo** String theory and the scientific method / / Richard Dawid, University of Vienna [[electronic resource]] Cambridge:,: Cambridge University Press,, 2013 Pubbl/distr/stampa **ISBN** 1-139-88957-5 1-107-06532-1 1-107-05689-6 1-107-05474-5 1-107-05802-3 1-107-05929-1 1-139-34251-7 1-107-05578-4 Descrizione fisica 1 online resource (x, 202 pages) : digital, PDF file(s) Classificazione SCI055000 Disciplina 539.7/258 Soggetti String models Science - Methodology 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 and index. Nota di bibliografia Nota di contenuto String theory -- The conceptual framework -- The assessment of scientific underdetermination in string theory -- The dynamics of high energy physics -- Scientific underdetermination in physics and beyond -- Final theory claims -- An altered perspective on scientific realism. String theory has played a highly influential role in theoretical physics Sommario/riassunto for nearly three decades and has substantially altered our view of the elementary building principles of the Universe. However, the theory remains empirically unconfirmed, and is expected to remain so for the foreseeable future. So why do string theorists have such a strong belief in their theory? This book explores this question, offering a novel insight into the nature of theory assessment itself. Dawid approaches the topic from a unique position, having extensive experience in both philosophy and high-energy physics. He argues that string theory is just the most conspicuous example of a number of theories in highenergy physics where non-empirical theory assessment has an important part to play. Aimed at physicists and philosophers of science, the book does not use mathematical formalism and explains most technical terms.