Record Nr. UNINA9910461287303321 Autore Niaz Mansoor **Titolo** From 'science in the making' to understanding the nature of science: an overview for science educators / / Mansoor Niaz New York, N.Y.:,: Routledge,, 2012 Pubbl/distr/stampa 1-283-45914-0 **ISBN** 9786613459145 1-136-50866-X 0-203-14647-6 Descrizione fisica 1 online resource (265 p.) Disciplina 507.1 Soggetti Science - Study and teaching Science teachers - Training of Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto FROM 'SCIENCE IN THE MAKING' TO UNDERSTANDING THE NATURE OF SCIENCEAn Overview for Science Educators; Copyright; Contents; Preface; Acknowledgments; 1 Introduction; 2 'Science in the Making' and Heuristic Principles in a Historical Context; 3 Students' and Teachers' Understanding of the Nature of Science; 4 How to Introduce the Nature of Science in the Classroom; 5 The Role of Heuristic Principles in Understanding the Nature of Science; 6 How the Views of Leon Cooper (Nobel Laureate) can Influence In-service Teachers' Understanding of the Nature of Science 7 Martin Perl's (Nobel Laureate) Perspective on the Nature of Science and Teaching Science8 Conclusion: From 'Science in the Making' to Understanding the Nature of Science; References; Index Sommario/riassunto "The Nature of Science is highly topical among science teacher educators and researchers. Increasingly, it is a mandated topic in state curriculum documents. This book draws together recent research on Nature of Science studies within a historical and philosophical framework suitable for students and teacher educators. Traditional

science curricula and textbooks present science as a finished product.

Taking a different approach, this book provides a glimpse of "science in the making" -- scientific practice imbued with arguments, controversies, and competition among rival theories and explanations" -- Provided by publisher.