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Titolo	Reconceptualizing the Nature of Science for Science Education : Scientific Knowledge, Practices and Other Family Categories / / by Sibel Erduran, Zoubeida R. Dagher
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Nota di contenuto	Dedication.- Foreword -- Preface.- Chapter 1. Reconceptualizing nature of science for science education -- Chapter 2. Family Resemblance Approach to characterizing science -- Chapter 3. Aims and values of science -- Chapter 4. Scientific practices -- Chapter 5. Methods and methodological rules in science -- Chapter 6. Scientific knowledge -- Chapter 7. Science as a social-institutional system -- Chapter 8. Towards "Generative Images of Science" in educational contexts -- Index.
Sommario/riassunto	Prompted by the ongoing debate among science educators over 'nature of science', and its importance in school and university curricula, this book is a clarion call for a broad re-conceptualizing of nature of science in science education. The authors draw on the 'family resemblance' approach popularized by Wittgenstein, defining science as a cognitive-epistemic and social-institutional system whose heterogeneous characteristics and influences should be more

thoroughly reflected in science education. They seek wherever possible to clarify their developing thesis with visual tools that illustrate how their ideas can be practically applied in science education. The volume's holistic representation of science, which includes the aims and values, knowledge, practices, techniques, and methodological rules (as well as science's social and institutional contexts), mirrors its core aim—to synthesize perspectives from the fields of philosophy of science and science education. The authors believe that this more integrated conception of nature of science in science education is both innovative and beneficial. They discuss in detail the implications for curriculum content, pedagogy, and learning outcomes, deploy numerous real-life examples, and detail the links between their ideas and curriculum policy more generally. "The book is an important contribution to science education research in terms of advancing our thinking about how to integrate the teaching of NOS in science lessons." Professor Doris Jorde, University of Oslo & Norwegian Centre for Science Education, Norway "By drawing from multidisciplinary studies of science and education, Drs. Erduran and Dagher provide a refreshingly new and comprehensive view of the nature of science and highlight insightful and timely educational implications." Professor Gregory J. Kelly, Pennsylvania State University, USA.
