1. Record Nr. UNINA9910778928403321 Circles disturbed [[electronic resource]]: the interplay of mathematics Titolo and narrative / / edited by Apostolos Doxiadis and Barry Mazur Pubbl/distr/stampa Princeton,: Princeton University Press, c2012 **ISBN** 1-283-45704-0 9786613457042 1-4008-4268-9 Edizione [Core Textbook] 1 online resource (593 p.) Descrizione fisica Altri autori (Persone) DoxiadesApostolos K. <1953-> MazurBarry Disciplina 510.1/4 Soggetti Mathematics - Language Communication in mathematics Mathematics - History 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 Frontmatter -- Contents -- Introduction -- Chapter 1. From Voyagers to Martyrs / Alexander, Amir -- Chapter 2. Structure of Crystal, Bucket of Dust / Galison, Peter -- Chapter 3. Deductive Narrative and the Epistemological Function of Belief in Mathematics / Nave, Federicala --Chapter 4. Hilbert on Theology and Its Discontents / Mclarty, Colin --Chapter 5. Do Androids Prove Theorems in Their Sleep? / Harris. Michael -- Chapter 6. Visions, Dreams, and Mathematics / Mazur, Barry -- Chapter 7. Vividness in Mathematics and Narrative / Gowers,

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Sommario/riassunto

Circles Disturbed brings together important thinkers in mathematics, history, and philosophy to explore the relationship between mathematics and narrative. The book's title recalls the last words of the great Greek mathematician Archimedes before he was slain by a Roman soldier--"Don't disturb my circles"--words that seem to refer to two radically different concerns: that of the practical person living in the concrete world of reality, and that of the theoretician lost in a world of abstraction. Stories and theorems are, in a sense, the natural languages of these two worlds--stories representing the way we act and interact, and theorems giving us pure thought, distilled from the hustle and bustle of reality. Yet, though the voices of stories and theorems seem totally different, they share profound connections and similarities. A book unlike any other, Circles Disturbed delves into topics such as the way in which historical and biographical narratives shape our understanding of mathematics and mathematicians, the development of "myths of origins" in mathematics, the structure and importance of mathematical dreams, the role of storytelling in the formation of mathematical intuitions, the ways mathematics helps us organize the way we think about narrative structure, and much more. In addition to the editors, the contributors are Amir Alexander, David Corfield, Peter Galison, Timothy Gowers, Michael Harris, David Herman, Federica La Nave, G.E.R. Lloyd, Uri Margolin, Colin McLarty, Jan Christoph Meister, Arkady Plotnitsky, and Bernard Teissier.