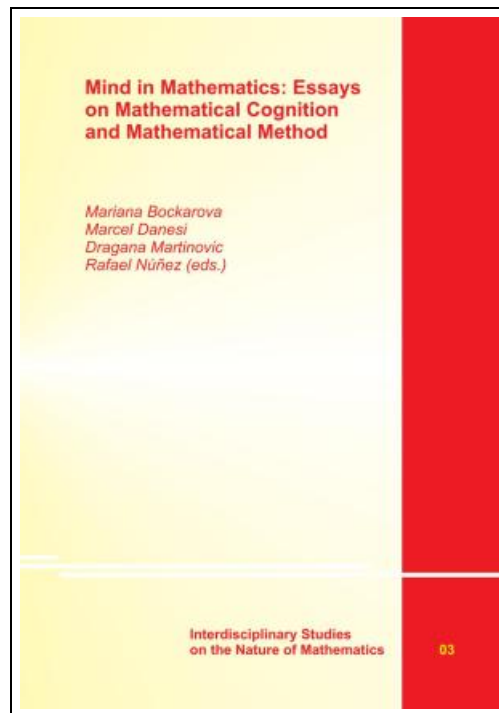


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München, 2015. Hardcover. Book Condition: Neu. Dust Jacket Condition: Neu. 1. Auflage. Mariana Bockarova (Harvard University), Marcel Danesi (University of Toronto), Dragana Martinovic (University of Windsor), Rafael Núñez (University of California, San Diego) (eds.). This volume brings together key essays by mathematicians, cognitive scientists, neuroscientists, semioticians, and educators on the nature of mathematical thought and how it unfolds in relation to language and other codes. Topics such as the role of analogy and metaphor, as well as inferential (abductive) thinking, are examined through several interdisciplinary lenses. The goal of this volume is to establish a "hermeneutic" field of study in mathematical cognition that aims to understand how mathematics dovetails with other human faculties. TABLE OF CONTENTS: Mariana Bockarova, Marcel Danesi, Dragana Martinovic, Rafael Núñez (Mind in Mathematics: Studying Mathematical Cognition and Method with Interdisciplinary Tools) - Brent Davis (Where Mathematics Curriculum Comes From) - Louis Kauffman (Knot Logic: Logical Connection and Topological Connection) - Donna Kotsopoulos, Joanna Zambrzycka, Samantha Makosz (Mommies, Mathematics, and Mathematically Mindful Mothering) - Luis Radford (Rhythm as an Integral Part of Mathematical Thinking) - Marcel Danesi (Math in the Brain: Neuroscientific Perspectives of Mathematical Cognition) - Yair Neuman (On Concrete Cats and Abstract Minds: A Note on the Logic of Abstraction and the Construction of Numbers) - John Mighton (All Things Being Equal: Using Evidence Based Approaches to Close the Achievement Gap in Math) - Dragana Martinovic (Digital Technologies and Mathematical Minds) - Robert K. Logan (The Relativity of Information: Shannons Mathematical Formula, Figure/Ground and the Importance of Context and Interpretation) - Gizem Karaali (Can Zombies Do Math?) - Inna Semetsky (Interpreting Peirces Abduction through the Lens of Mathematics) - Stéphanie Walsh Matthews and Jamin Pelkey (Seeing Mathematics) - Mariana Bockarova (The Effect of Teacher Math Anxiety on Teaching Practices: A Case Study) - Stacy...



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