Record Nr. UNINA9910797514003321 Development of mathematical cognition : neural substrates and genetic Titolo influences / / edited by Daniel B. Berch, David C. Geary, Kathleen Mann Koepke; contributors, Daniel Ansari [and twenty-two others] Amsterdam, [Netherlands]:,: Academic Press,, 2016 Pubbl/distr/stampa ©2016 **ISBN** 0-12-801909-3 Descrizione fisica 1 online resource (0 p.) Collana Mathematical Cognition and Learning;; Volume 2 Disciplina 510.71 Soggetti Mathematics - Study and teaching - Methodology Mathematical ability Cognition in children 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 at the end of each chapters and index. Introduction: How the Study of Neurobiological and Genetic Factors Can Nota di contenuto Enhance Our Understanding of Mathematical Cognitive Development --Number Symbols in the Brain -- Neural and Behavioral Signatures of Core Numerical Abilities and Early Symbolic Number Development -- A Neurodevelopmental Perspective on the Role of Memory Systems in Children's Math Learning -- Finger Representation and Finger-Based Strategies in the Acquisition of Number Meaning and Arithmetic --Neurocognitive Architectures and the Nonsymbolic Foundations of Fractions Understanding -- Developmental Dyscalculia and the Brain --Neurocognitive Components of Mathematical Skills and Dyscalculia --Individual Differences in Arithmetic Fact Retrieval -- Transcranial Electrical Stimulation and the Enhancement of Numerical Cognition --Individual Differences in Mathematics Ability: A Behavioral Genetic Approach -- Genetic Syndromes as Model Pathways to Mathematical Learning Difficulties: Fragile X, Turner, and 22q Deletion Syndromes. Sommario/riassunto Focusing on the neural substrates and genetic factors associated with both the typical and atypical development of mathematical thinking and

> learning, this second volume in the "Mathematical Cognition and Learning" series integrates the latest in innovative measures and

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