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Nota di contenuto	Preliminary Material / Don Ambrose , Bharath Sriraman and Kathleen M. Pierce -- Creative Emergence, Order, and Chaos: Grappling with the Complexity of Complexity Theory / Don Ambrose -- Learning: Creation or Re-creation? From Constructivism to the Theory of Didactical Situations / Jarmila Novotna and Bernard Sarrazy -- Investigating Mathematical Creativity in Elementary School Through the Lens of Complexity Theory / Esther Levenson -- On the Edge of Chaos: Robots in the Classroom / Steve V. Coxon -- The Ubiquity of the Chaos-Order Continuum: Insights From Diverse Academic Disciplines / Don Ambrose -- Organisational Leadership for Creativity: Thriving at the Edge / Elizabeth Watson -- Complex Regenerative Creativity / Marna Hauk -- Pareto Optimum Efficiency Between Chaos and Order When Seeking Consensus in Urban Planning / Todd Juhasz -- Subjectivity, Objectivity, and the Edge of Chaos / Peter E. Pruij -- Seeking Chaotic Order: The Classroom as a Complex Adaptive System / Don Ambrose -- Expansive Notions of Coherence and Complexity in Education / Bryant Griffith and Kim Skinner -- Complexity, Patterns, and Creativity / Jeffrey W. Bloom -- A Shakespeare Festival Midwives Complexity / Kathleen M. Pierce -- The Anthropology of Twice Exceptionality: Is Today's Disability Yesterday's (or Tomorrow's) Evolutionary Advantage? A Case Study with ADD/ADHD / Jack Trammell -- Mentoring the Pupal: Professional Induction Along the Chaos-Order Continuum / Kathleen M. Pierce --

Helping Students Respond Creatively to a Complex World / Michelle E. Jordan and Reuben R. McDaniel Jr. -- Toward the Pattern Models of Creativity: Chaos, Complexity, Creativity / Krystyna C. Laycraft -- Emotions, Complexity, and Intelligence / Ann Gazzard -- Contributors / Don Ambrose , Bharath Sriraman and Kathleen M. Pierce -- Subject Index / Don Ambrose , Bharath Sriraman and Kathleen M. Pierce.

Sommario/riassunto

In an increasingly complex world the natural human inclination is to oversimplify issues and problems to make them seem more comprehensible and less threatening. This tendency usually generates forms of dogmatism that diminish our ability to think creatively and to develop worthy talents. Fortunately, complexity theory is giving us ways to make sense of intricate, evolving phenomena. This book represents a broad, interdisciplinary application of complexity theory to a wide variety of phenomena in general education, STEM education, learner diversity and special education, social-emotional development, organizational leadership, urban planning, and the history of philosophy. The contributors provide nuanced analyses of the structures and dynamics of complex adaptive systems in these academic and professional fields.