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Nota di contenuto	Preface -- I Refereed Articles: 1 Computational Inverse Problems -- 2 Integrability in Low-Dimensional Quantum Systems -- 3 Elliptic Partial Differential Equations of Second Order: Celebrating 40 Years of Gilbarg and Trudinger's Book -- 4 Mathematics of Risk -- 5 Tutte Centenary Retreat -- 6 Geometric R-Matrices: from Geometry to Probability -- II Other Contributed Articles: 7 Hypergeometric Motives and Calabi–Yau Differential Equations -- 8 Computational Inverse Problems -- 9 Combinatorics, Statistical Mechanics, and Conformal Field Theory -- 10 Mathematics of Risk -- Geometric R-Matrices: from Geometry to Probability. .
Sommario/riassunto	MATRIX is Australia's international and residential mathematical research institute. It facilitates new collaborations and mathematical advances through intensive residential research programs, each 1-4 weeks in duration. This book is a scientific record of the eight programs held at MATRIX in its second year, 2017: - Hypergeometric Motives and Calabi–Yau Differential Equations - Computational Inverse Problems - Integrability in Low-Dimensional Quantum Systems - Elliptic Partial Differential Equations of Second Order: Celebrating 40 Years of Gilbarg and Trudinger's Book - Combinatorics, Statistical Mechanics, and Conformal Field Theory - Mathematics of Risk - Tutte Centenary Retreat - Geometric R-Matrices: from Geometry to Probability The articles are grouped into peer-reviewed contributions and other contributions. The peer-reviewed articles present original

results or reviews on a topic related to the MATRIX program; the remaining contributions are predominantly lecture notes or short articles based on talks or activities at MATRIX.
