Record Nr.	UNINA9910254305103321
Titolo	Exploring the Riemann Zeta Function : 190 years from Riemann's Birth / / edited by Hugh Montgomery, Ashkan Nikeghbali, Michael Th. Rassias
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-59969-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 298 p. 7 illus., 5 illus. in color.)
Disciplina	512.7
Soggetti	Number theory
	Algebraic geometry
	Functions of complex variables
	Dynamics
	Ergodic theory
	Difference equations
	Functional equations
	Harmonic analysis
	Number Theory
	Algebraic Geometry
	Functions of a Complex Variable
	Difference and Eurotional Equations
	Abstract Harmonic Analysis
Lingua di pubblicazione	Indese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface (Dyson) 1. An introduction to Riemann's life, his mathematics, and his work on the zeta function (R. Baker) 2. Ramanujan's formula for zeta (2n+1) (B.C. Berndt, A. Straub) 3. Towards a fractal cohomology: Spectra of Polya-Hilbert operators, regularized determinants, and Riemann zeros (T. Cobler, M.L. Lapidus) The Temptation of the Exceptional Characters (J.B. Friedlander, H. Iwaniec) 4. The Temptation of the Exceptional Characters (J.B. Friedlander, H. Iwaniec) 5. Arthur's truncated Eisenstein series for SL

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	 (2,Z) and the Riemann Zeta Function, A Survey (D. Goldfield) 6. On a Cubic moment of Hardy's function with a shift (A. Ivic) 7. Some analogues of pair correlation of Zeta Zeros (Y. Karabulut, C.Y. Yldrm) 8. Bagchi's Theorem for families of automorphic forms (E. Kowalski) 9. The Liouville function and the Riemann hypothesis (M.J. Mossinghoff, T.S. Trudgian) 10. Explorations in the theory of partition zeta functions (K. Ono, L. Rolen, R. Schneider) 11. Reading Riemann (S.J. Patterson) 12. A Taniyama product for the Riemann zeta function (D.E. Rohrlich).
Sommario/riassunto	This book is concerned with the Riemann Zeta Function, its generalizations, and various applications to several scientific disciplines, including Analytic Number Theory, Harmonic Analysis, Complex Analysis and Probability Theory. Eminent experts in the field illustrate both old and new results towards the solution of long- standing problems and include key historical remarks. Offering a unified, self-contained treatment of broad and deep areas of research, this book will be an excellent tool for researchers and graduate students working in Mathematics, Mathematical Physics, Engineering and Cryptography.