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Autore	Dittrich Walter
Titolo	Reassessing Riemann's paper : on the number of primes less than a given magnitude / / Walter Dittrich
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2018] Â©2018
ISBN	3-030-61049-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (XI, 107 p. 18 illus., 10 illus. in color.)
Collana	SpringerBriefs in History of Science and Technology
Disciplina	512.7
Soggetti	Number theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction -- Short Biography of Bernhard Riemann (1826 – 1866) -- Towards Euler's Product Formula and Riemann's Extension of the Zeta Function -- Prime Power Number Counting Function -- Riemann as an Expert in Fourier Transforms -- On the Way to Riemann's Entire Function (s) -- The Product Representation of (s) and (s) by Riemann (1859) -- Derivation of Von Mangoldt's Formula for (x) -- The Number of Roots in the Critical Strip -- Riemann's Zeta Function Regularization -- -Function Regularization of the Partition Function of the Harmonic Oscillator -- -Function Regularization of the Partition Function of the Fermi Oscillator -- The Zeta-Function in Quantum Electrodynamics (QED) -- Summary of Euler-Riemann Formulae -- Appendix.
Sommario/riassunto	In this book, the author pays tribute to Bernhard Riemann (1826-1866), a mathematician with revolutionary ideas, whose work on the theory of integration, the Fourier transform, the hypergeometric differential equation, etc. contributed immensely to mathematical physics. The text concentrates in particular on Riemann's only work on prime numbers, including ideas – new at the time – such as analytical continuation into the complex plane and the product formula for entire functions. A detailed analysis of the zeros of the Riemann zeta-function is presented. The impact of Riemann's ideas on regularizing infinite values in field theory is also emphasized. This revised and enhanced new edition contains three new chapters, two on the

application of Riemann's zeta-function regularization to obtain the partition function of a Bose (Fermi) oscillator and one on the zeta-function regularization in quantum electrodynamics. Appendix A2 has been re-written to make the calculations more transparent. A summary of Euler-Riemann formulae completes the book.

2. Record Nr.	UNIORUON00061956
Autore	WANG Kezhong
Titolo	Gujin tongxing ciyu lishi / Wang Kezhong, Fang Jumian
Pubbl/distr/stampa	Harbin, : Heilong Jangrenmin Chubanshe, 1983
Descrizione fisica	200 p. ; 20 cm
Classificazione	CIN II A
Altri autori (Persone)	FANG Jumian
Soggetti	Lingua cinese - Cinese classico - Dizionari
Lingua di pubblicazione	Cinese
Formato	Materiale a stampa
Livello bibliografico	Monografia