Record Nr. Autore	UNINA9910300151903321 Pons Matthew A
Titolo	Real Analysis for the Undergraduate : With an Invitation to Functional Analysis / / by Matthew A. Pons
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2014
ISBN	1-4614-9638-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XVIII, 409 p. 43 illus.) : online resource
Disciplina	515
Soggetti	Mathematical analysis Analysis (Mathematics) Functions of real variables Functional analysis Analysis Real Functions Functional Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Real Numbers Sequences in R Numerical Series Continuity The Derivative Sequence and Series of Functions The Riemann Integral Lebesgue Measure on R Lebesgue Integration.
Sommario/riassunto	This undergraduate textbook introduces students to the basics of real analysis, provides an introduction to more advanced topics including measure theory and Lebesgue integration, and offers an invitation to functional analysis. While these advanced topics are not typically encountered until graduate study, the text is designed for the beginner. The author's engaging style makes advanced topics approachable without sacrificing rigor. The text also consistently encourages the reader to pick up a pencil and take an active part in the learning process. Key features include: - examples to reinforce theory; - thorough explanations preceding definitions, theorems and formal proofs; - illustrations to support intuition; - over 450 exercises designed to develop connections between the concrete and abstract. This text takes students on a journey through the basics of real analysis and provides those who wish to delve deeper the opportunity

1.