1. Record Nr.	UNINA9911007078403321
Autore	Rosenlicht Maxwell
Titolo	Introduction to Analysis
Pubbl/distr/stampa	Newburyport, : Dover Publications, 2012
ISBN	9780486134680
	0486134687
	9781621986324
	1621986322
Edizione	[1st ed.]
Descrizione fisica	1 online resource (455 p.)
Collana	Dover Books on Mathematics
Disciplina	515
Soggetti	Mathematical analysis
	Engineering & Applied Sciences
	Applied Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Title Page; Copyright Page; Preface; Contents; Chapter I. Notions from Set Theory; 1. Sets and elements. Subsets; 2. Operations on sets; 3. Functions; 4. Finite and infinite sets; Problems; Chapter II. The Real Number System; 1. The field properties; 2. Order; 3. The least upper bound property; 4. The existence of square roots; Problems; Chapter III. Metric Spaces; 1. Definition of metric space. Examples; 2. Open and closed sets; 3. Convergent sequences; 4. Completeness; 5. Compactness; 6. Connectedness; Problems; Chapter IV. Continuous Functions
	1. Definition of continuity. Examples 2. Continuity and limits; 3. The continuity of rational operations. Functions with values in En; 4. Continuous functions on a compact metric space; 5. Continuous functions on a connected metric space; 6. Sequences of functions; Problems; Chapter V. Differentiation; 1. The definition of derivative; 2. Rules of differentiation; 3. The mean value theorem; 4. Taylor's theorem; Problems; Chapter VI. Riemann Integration; 1. Definitions and examples; 2. Linearity and order properties of the integral; 3. Existence of the integral
	4. The fundamental theorem of calculus 5. The logarithmic and

Sommario/riassunto	<DIV>Written for junior and senior undergraduates, this remarkably clear and accessible treatment covers set theory, the real number system, metric spaces, continuous functions, Riemann integration, multiple integrals, and more. Rigorous and carefully presented, the text assumes a year of calculus and features problems at the end of each chapter. 1968 edition.</DIV>