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Autore	Çnlar E (Erhan), <1941->
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Sets and Functions -- Metric Spaces -- Functions on Metric Spaces -- Differential and Integral Equations -- Convexity.-Convex Optimization -- Measure and Integration -- Bibliography.-Index.-.
Sommario/riassunto	This book offers a first course in analysis for scientists and engineers. It can be used at the advanced undergraduate level or as part of the curriculum in a graduate program. The book is built around metric spaces. In the first three chapters, the authors lay the foundational material and cover the all-important "four-C's": convergence, completeness, compactness, and continuity. In subsequent chapters, the basic tools of analysis are used to give brief introductions to differential and integral equations, convex analysis, and measure theory. The treatment is modern and aesthetically pleasing. The book contains detailed illustrations, examples and exercises. It lays the

groundwork for the needs of classical fields as well as the important
new fields of optimization and probability theory.
