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Titolo	Introduction to gauge integrals [[electronic resource] /] / Charles Swartz
Pubbl/distr/stampa	Singapore ; ; River Edge, N.J., : World Scientific, c2001
ISBN	1-281-95631-7 9786611956318 981-281-065-X
Descrizione fisica	1 online resource (150p.)
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Soggetti	Henstock-Kurzweil integral Calculus Electronic books.
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references (p. 149-153) and index.
Nota di contenuto	Introduction to the gauge or Henstock-Kurzweil integral; basic properties of the gauge integral; Henstock's Lemma and improper integrals; the gauge integral over unbounded intervals; convergence theorems; integration over more general sets -Lebesgue measure; the space of gauge integrable functions; multiple integrals and Fubini's theorem; the McShane integral; McShane integrability is equivalent to absolute Henstock-Kurzweil integrability.
Sommario/riassunto	A presentation of the Henstock/Kurzweil integral and the McShane integral. These two integrals are obtained by changing slightly the definition of the Riemann integral. A basic knowledge of introductory real analysis is required of the reader.