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Título: Henstock-Kurzweil Integration On Euclidean Spaces (Vol. 12)

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Sinopsis

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The Henstock-Kurzweil integral, which is also known as the generalized Riemann integral, arose from a slight modification of the classical Riemann integral more than 50 years ago. This relatively new integral is known to be equivalent to the classical Perron integral; in particular, it includes the powerful Lebesgue integral. This book presents an introduction of the multiple Henstock-Kurzweil integral. Along with the classical results, this book contains some recent developments connected with measures, multiple integration by parts, and multiple Fourier series. The book can be understood with a prerequisite of advanced calculus.

Contents:

The One-Dimensional Henstock-Kurzweil Integral

The Multiple Henstock-Kurzweil Integral

Lebesgue Integrable Functions

Further Properties of Henstock-Kurzweil Integrable Functions

The Henstock Variational Measure

Multipliers for the Henstock-Kurzweil Integral

Some Selected Topics in Trigonometric Series

Some Applications of the Henstock-Kurzweil Integral to Double Trigonometric Series