Título: Essentials Of Integration Theory For Analysis (Vol. 262)

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Essentials of Integration Theory for Analysis is a substantial revision of the best-selling Birkhäuser title by the same author, A Concise Introduction to the Theory of Integration. Highlights of this new textbook for the GTM series include revisions to Chapter 1 which add a section about the rate of convergence of Riemann sums and introduces a discussion of the Euler-MacLauren formula. In Chapter 2, where Lebesque's theory is introduced, a construction of the countably additive measure is done with sufficient generality to cover both Lebesque and Bernoulli measures. Chapter 3 includes a proof of Lebesque's differential theorem for all monotone functions and the concluding chapter has been expanded to include a proof of Carathéory's method for constructing measures and his result is applied to the construction of the Hausdorff measures.

This new gem is appropriate as a text for a one-semester graduate course in integration theory and is complimented by the addition of several problems related to the new material. The text is also highly useful for self-study. A complete solutions manual is available for instructors who adopt the text for their courses.