

1. Record Nr.	UNINA9911019721503321
Autore	Burk Frank
Titolo	Lebesgue measure and integration : an introduction / / Frank Burk
Pubbl/distr/stampa	New York, : Wiley, c1998
ISBN	9786613306197 9781283306195 1283306190 9781118032732 111803273X 9781118030981 1118030982
Descrizione fisica	1 online resource (314 p.)
Collana	Pure and applied mathematics
Disciplina	515/.42
Soggetti	Lebesgue integral Measure theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	A superb text on the fundamentals of Lebesgue measure and integration. This book is designed to give the reader a solid understanding of Lebesgue measure and integration. It focuses on only the most fundamental concepts, namely Lebesgue measure for \mathbb{R} and Lebesgue integration for extended real-valued functions on \mathbb{R} . Starting with a thorough presentation of the preliminary concepts of undergraduate analysis, this book covers all the important topics, including measure theory, measurable functions, and integration. It offers an abundance of support materials, including helpful illustrations, examples, and problems. To further enhance the learning experience, the author provides a historical context that traces the struggle to define "area" and "area under a curve" that led eventually to Lebesgue measure and integration. Lebesgue Measure and Integration is the ideal text for an advanced undergraduate analysis course or for a first-year graduate course in mathematics, statistics, probability, and

other applied areas. It will also serve well as a supplement to courses in advanced measure theory and integration and as an invaluable reference long after course work has been completed.
