



# A Course of Higher Mathematics: Integration and Functional Analysis

V. I. Smirnov

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A Course of Higher Mathematics, Volume V focuses on the theory of integration and elements of functional analysis.

This book is organized into five chapters. Chapter I discusses the theory of the classical Stieltjes integral and space C of continuous functions, while Chapter II deals with the foundations of the metric theory of functions of a real variable and Lebesgue-Stieltjes integral. The theory of completely additive set functions and case of the one-dimensional Hellinger integral are analyzed in Chapter III. Chapter IV contains an exposition of the foundations of the general theory of metric and normed spaces. The general theory of Hilbert space is covered in Chapter V.

This volume is suitable for engineers, physicists, and students of pure mathematics.



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