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**Título:** Differential And Integral Calculus: Third Edition

**Autor:** Edmund Landau

**Precio:** Desconocido

**Editorial:**

**Año:** 1965

**Tema:**

**Edición:** 1<sup>a</sup>

**Sinopsis**

**ISBN:** 9780821828304

After completing his famous Foundations of Analysis (See AMS Chelsea Publishing, Volume 79.H for the English Edition and AMS Chelsea Publishing, Volume 141 for the German Edition, Grundlagen der Analysis), Landau turned his attention to this book on calculus. The approach is that of an unrepentant analyst, with an emphasis on functions rather than on geometric or physical applications. The book is another example of Landau's formidable skill as an expositor. It is a masterpiece of rigor and clarity.

Reviews

"And what a book it is! The marks of Landau's thoroughness and elegance, and of his undoubted authority, impress themselves on the reader at every turn, from the opening of the preface ... to the closing of the final chapter. It is a book that all analysts ... should possess ... to see how a master of his craft like Landau presented the calculus when he was at the height of his power and reputation."

-- Mathematical Gazette

Table of Contents

Part One. Differential Calculus

Limits as  $n \rightarrow \infty$ ?

Logarithms, powers, and roots

Functions and continuity

Limits as  $x \rightarrow a$ ?

Definition of the derivative

General theorems on the formation of the derivative

Increase, decrease, maximum, minimum

General properties of continuous functions on closed intervals

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Rolle's theorem and the theorem of the mean  
Derivatives of higher order; Taylor's theorem  
"0/0" and similar matters  
Infinite series  
Uniform convergence  
Power series  
Exponential series and binomial series  
The trigonometric functions  
Functions of two variables and partial derivatives  
Inverse functions and implicit functions  
The inverse trigonometric functions  
Some necessary algebraic theorems

Part Two. Integral Calculus

Definition of the integral  
Basic formulas of the integral calculus  
The integration of rational functions  
The integration of certain non-rational functions  
Concept of the definite integral  
Theorems on the definite integral  
The integration of infinite series  
The improper integral  
The integral with infinite limits  
The gamma function  
Fourier series  
Index of definitions  
Subject index