

# An Introduction To Analysis

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vickersa 11.9999 This text prepares readers for fluency with analytic ideas, such as real and complex analysis, partial and ordinary differential equations, numerical analysis, fluid mechanics, and differential geometry. This book is designed to challenge advanced readers while encouraging and helping readers with weaker skills. Offering readability, practicality and flexibility, Wade presents fundamental theorems and ideas from a practical viewpoint, showing readers the motivation

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behind the mathematics and enabling them to construct their own proofs. ONE-DIMENSIONAL THEORY; The Real Number System; Sequences in  $\mathbb{R}$ ; Continuity on  $\mathbb{R}$ ; Differentiability on  $\mathbb{R}$ ; Integrability on  $\mathbb{R}$ ; Infinite Series of Real Numbers; Infinite Series of Functions; MULTIDIMENSIONAL THEORY; Euclidean Spaces; Convergence in  $\mathbb{R}^n$ ; Metric Spaces; Differentiability on  $\mathbb{R}^n$ ; Integration on  $\mathbb{R}^n$ ; Fundamental Theorems of Vector Calculus; Fourier Series For all readers interested in analysis.

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