



An Introduction to Analysis (4th Edition)

By *William R. Wade*

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For one- or two-semester junior or senior level courses in Advanced Calculus, Analysis I, or Real Analysis.

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Editorial Review

From the Publisher

Designed as a "bridge" between sophomore-level calculus to graduate-level courses that use analytic ideas, this text provides an unusually friendly, but rigorous treatment. It is friendly because the text helps link proofs together in a way that teaches students to think ahead: "Why this Theorem?"

From the Back Cover

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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 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.]]>

About the Author

William Wade received his PhD in harmonic analysis from the University of California—Riverside. He has been a professor of the Department of Mathematics at the University of Tennessee for more than forty years. During that time, he has received multiple awards including two Fulbright Scholarships, the Chancellor's Award for Research and Creative Achievements, the Dean's Award for Extraordinary Service, and the National Alumni Association Outstanding Teaching Award.

Wade's research interests include problems of uniqueness, growth and dyadic harmonic analysis, on which he has published numerous papers, two books and given multiple presentations on three continents. His current publication, *An Introduction to Analysis*, is now in its fourth edition.

In his spare time, Wade loves to travel and take photographs to document his trips. He is also musically inclined, and enjoys playing classical music, mainly baroque on the trumpet, recorder, and piano.

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