



Real Analysis: A Constructive Approach

By Mark Bridger

John Wiley & Sons Inc. Paperback. Book Condition: new. BRAND NEW, Real Analysis: A Constructive Approach, Mark Bridger, A unique approach to analysis that lets you apply mathematics across a range of subjects This innovative text sets forth a thoroughly rigorous modern account of the theoretical underpinnings of calculus: continuity, differentiability, and convergence. Using a constructive approach, every proof of every result is direct and ultimately computationally verifiable. In particular, existence is never established by showing that the assumption of non-existence leads to a contradiction. The ultimate consequence of this method is that it makes sense--not just to math majors but also to students from all branches of the sciences. The text begins with a construction of the real numbers beginning with the rationals, using interval arithmetic. This introduces readers to the reasoning and proof-writing skills necessary for doing and communicating mathematics, and it sets the foundation for the rest of the text, which includes: * Early use of the Completeness Theorem to prove a helpful Inverse Function Theorem * Sequences, limits and series, and the careful derivation of formulas and estimates for important functions * Emphasis on uniform continuity and its consequences, such as boundedness and the extension of..



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