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Elementary Calculus (Classic Reprint)

By Frederick S. Woods

Forgotten Books. Paperback. Condition: New. This item is printed on demand. 332 pages. Dimensions: 9.0in. x 6.0in. x 0.7in. Excerpt from Elementary Calculus This book is adapted to the use of students in the first year in technical school or college, and is based upon the experience of the authors in teaching calculus to students in the Massachusetts Institute of Technology immediately upon entrance. It is accordingly assumed that the student has had college-entrance algebra, including graphs, and an elementary course in trigonometry, but that he has not studied analytic geometry. The first three chapters form an introductory course in which the fundamental ideas of the calculus are introduced, including derivative, differential, and the definite integral, but the formal work is restricted to that involving only the polynomial. These chapters alone are well fitted for a short course of about a term. The definition of the derivative is obtained through the concept of speed, using familiar illustrations, and the idea of a derivative as measuring the rate of change of related quantities is emphasized. The slope of a curve is introduced later. This is designed to prevent the student from acquiring the notion that the derivative is fundamentally a geometric concept. For...



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