Calculus in the First Three Dimensions (Dover Books on Mathematics)

By Sherman K. Stein

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This introduction to calculus is designed for beginning college undergraduates majoring in mathematics as well as undergraduates pursuing other areas of science and engineering for whom calculus will be a vital tool.
The three-part treatment begins by exploring the core of the calculus, concentrating on three basic ideas: the definite integral, the derivative, and the fundamental theorem of calculus. Part Two takes up topics such as the maximum and minimum of a function, Taylor's series, partial derivatives, differentiation of vectors, and Green's theorem in the plane. Part Three, which contains no further mathematical development, applies the techniques developed earlier to significant problems in the natural, social, and physical sciences. Appendixes supplement the treatment, offering helpful information on the rudiments of analytic geometry, real numbers, and functions. Numerous examples and exercises appear throughout the text, and solutions to the problems are available as free downloads from the Dover website.

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About the Author

Sherman K. Stein is Professor Emeritus of Mathematics at the University of California, Davis. He is the author of several other books on mathematical subjects, including Dover's *Mathematics: The Man-Made Universe.*

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