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## **Applications of multivariable derivatives | Khan Academy**

Multivariable Calculus by George Cain, James Herod The text covers Euclidean three space, vectors, vector functions, derivatives, more dimensions, linear functions and matrices, continuity, the Taylor polynomial, sequences and series, Taylor series, integration, Gauss and Green, Stokes.

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## **www.math.byu.edu**

It covers the same material as 18.02 (Multivariable Calculus), but at a deeper level, emphasizing careful reasoning and understanding of proofs. There is considerable emphasis on linear algebra and vector integral calculus.

## **Multivariable Calculus with Theory | Mathematics | MIT ...**

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Multivariable calculus is used in many fields of natural and social science and engineering to model and study high-dimensional systems that exhibit deterministic behavior. In economics, for example, consumer choice over a variety of goods, and producer choice over various inputs to use and outputs to produce,...

## **Multivariable calculus - Wikipedia**

Unless noted otherwise, all textbook readings are from: Apostol, Tom M. Calculus, Vol. 2: Multi-Variable Calculus and Linear Algebra with Applications to Differential Equations and Probability. Wiley, 1969. ISBN: 9780471000075. Additional course notes by James Raymond Munkres, Professor of Mathematics, Emeritus, are also provided.

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18.01 Single Variable Calculus or equivalent and permission of the instructor. Description. We will cover the same material as 18.02 Multivariable Calculus but with an emphasis on proofs and conceptual understanding rather than computation. In addition, we will cover many topics from linear algebra that are not considered in 18.02.

## **Syllabus | Multivariable Calculus with Theory ...**

Lax and Terrell's sequel to their Calculus With Applications presents a first course in multivariable calculus that fits in just over 400 pages. Even instructors who use standard texts will find much of value in this refreshing first edition. The book is written with a wide range of STEM students in mind, and its exposition remains remarkably fluid without sacrificing precision.

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