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Differential Calculus in Normed Linear Spaces Kalyan Mukherjea Hindustan Book Agency, India June 2003, 304 pages, Hardback, RS.350/(India only) US\$38.00 (outside India) A proper understanding of multivariable calculus, usually taught at the senior under graduate level, is crucial for the study of differential geometry and partial differential equations, among other areas. Traditionally

Differential Calculus in Normed Linear Spaces
When I discuss Differential Calculus our functions will be defined on subsets of normed linear spaces. Suppose $U \subset E$ is a subset of a normed linear space and $f: U \rightarrow F$ is a function into another normed linear space. In this situation the argument of the f36 1. Preliminaries function is, of course, a vector.

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Differential Calculus in Normed Linear Spaces (2/E) Kalyan Mukherjea This book presents Advanced Calculus from a geometric point of view: instead of dealing with partial derivatives of functions of several variables, the derivative of the function is treated as a linear transformation between normed linear spaces.

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This is an interesting look at multivariable differential calculus, developed for functions on complete normed linear spaces rather than on \mathbb{R}^n . The generality pays off in the last chapter, that develops differential calculus on manifolds. This is intended as an upper-division undergraduate text, and it has lots of examples and challenging exercises.

Differential Calculus and Its Applications | Mathematical ...
A normed linear space is a vector space which also has a concept of vector length. We use this length function to set-up limits for maps on normed linear spaces. The idea of the limit is the same as it was in rst semester calculus; we say the map approaches a value when we can make values of

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differential equations, the calculus of variations and the boundary value problems of mthenatical physics. ... is a normed linear sace. The norm in this space r_y be defined in several ways, as $HxH(2.) = ax i (i) (2.5) x_{ij} = | i j|= (1) The *et C of al).$

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American Mathematical Society Home
This text offers a synthesis of theory and application related to modern techniques of differentiation. Based on undergraduate courses in advanced calculus, the treatment covers a wide range of topics, from soft functional analysis and finite-dimensional linear algebra to differential equations on submanifolds of Euclidean space. 1976 edition.

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Texts: Differential Calculus On Normed Spaces by Cartan 2nd Ed!
Together with its' sequel, Differential Calculus On Normed Spaces forms the basis for an outstanding advanced undergraduate/first year graduate analysis course in the Bourbakian French tradition of Jean Dieudonné's Foundations of Modern Analysis, but a more accessible level and much more affordable then that classic.

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