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The term "weakly differentiable functions" in the title refers to those inte n grable functions defined on an open subset of R whose partial derivatives in the sense of distributions are either LP functions or (signed) measures with finite total variation. The former class of functions comprises what is now known as Sobolev spaces, though its origin, traceable to the early 1900s, predates the contributions by Sobolev.

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Weakly Differentiable Functions: Sobolev Spaces and Functions of Bounded Variation. The major thrust of this book is the analysis of pointwise behavior of Sobolev functions of integer order and BV functions (functions whose partial derivatives are measures with finite total variation). The development of Sobolev functions includes an analysis of their continuity properties in terms of Lebesgue points, approximate continuity, and fine continuity as well as a discussion of their higher order ...

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In mathematics, a Sobolev space is a vector space of functions equipped with a norm that is a combination of Lp-norms of the function together with its derivatives up to a given order. The derivatives are understood in a suitable weak sense to make the space complete, i.e. a Banach space. Intuitively, a Sobolev space is a space of functions possessing sufficiently many derivatives for some application domain, such as partial differential equations, and equipped with a norm that measures both the

Sobolev space - Wikipedia

It is well-known that a function f is weakly differentiable at ? b d-a.e. x ? ? d if and only if it can be approximated with Lipschitz functions in Lusin's sense. Namely, for any ? > 0 there exists a Lipschitz function g : ? d ? ? such that ? b d ({ f ? g }) < ? .

On the Sobolev space of functions with derivative of ...

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Weakly Differentiable Functions | SpringerLink

In mathematics, a weak derivative is a generalization of the concept of the derivative of a function (strong derivative) for functions not assumed differentiable, but only integrable, i.e., to lie in the L p space. L 1 ([a , b]) {\displaystyle L^ {1} ([a,b])} . See distributions for a more general definition.

Weak derivative - Wikipedia

Let f be a function in some Sobolev space which is infinite at 0 (for example f might be | x | ? 1 / 3 in H1(?) for ? some open ball in R3), let qn be an enumeration of the rational points of ?, and let fh(x) = f(x ? h). Then we can define g = ? n 2 ? nfqn. This g is unbounded on any open set, but its norm is no more than double the norm of f, so in particular it is still weakly differentiable.

analysis - Weakly differentiable but classically nowhere ...

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