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A First Course in Sobolev Spaces

In the first part of the book, he has generalized the theory from real-valued functions to functions taking values in a Banach space. There is a new chapter on the Bochner integral and a new section on interpolation inequalities for Sobolev functions of one variable.

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A First Course in Sobolev Spaces

In this way, the majority of the text can be read without the prerequisite of a course in functional analysis. The first part of this text is devoted to studying functions of one variable. Several of the topics treated occur in courses on real analysis or measure theory.

A First Course in Sobolev Spaces

A First Course in Sobolev Spaces: Second Edition About this Title. Giovanni Leoni, Carnegie Mellon University, Pittsburgh, PA. Publication: Graduate Studies in Mathematics Publication Year: 2017; Volume 181 ISBNs: 978-1-4704-2921-8 (print); 978-1-4704-4226-2 (online) DOI: https://doi.org/10.1090/gsm/181 MathSciNet review: MR3726909

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5) G. Leoni, A First Course in Sobolev Spaces, Graduate Studies in Mathematics 181, American Mathematical Society, 2nd Edn., 2017.

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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