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Leoni has worked hard to make A First Course in Sobolev Spaces maximally effective pedagogically: solid but



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A First Course in Sobolev Spaces About this Title. Giovanni Leoni, Carnegie Mellon University, Pittsburgh, PA.

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<http://dx.doi.org/10.1090/gsm/105> MathSciNet review: MR2527916

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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.

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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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received and filled. Besides the standard results on Sobolev functions, this part of the book includes chapters on BV functions, symmetric rearrangement, and Besov spaces.

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In mathematics, a Sobolev space is a vector space of functions equipped with a norm that is a combination of  $L_p$ -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

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with a norm that measures both the

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