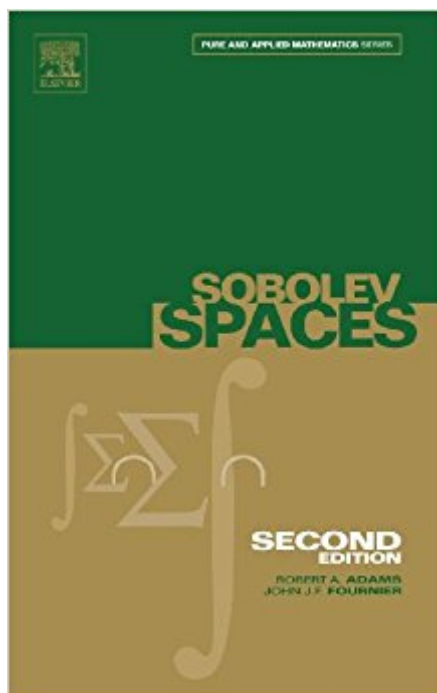


The book was found

# Sobolev Spaces, Volume 140, Second Edition (Pure And Applied Mathematics)



## Synopsis

Sobolev Spaces presents an introduction to the theory of Sobolev Spaces and other related spaces of function, also to the imbedding characteristics of these spaces. This theory is widely used in pure and Applied Mathematics and in the Physical Sciences. This second edition of Adam's 'classic' reference text contains many additions and much modernizing and refining of material. The basic premise of the book remains unchanged: Sobolev Spaces is intended to provide a solid foundation in these spaces for graduate students and researchers alike. \* Self-contained and accessible for readers in other disciplines.\* Written at elementary level making it accessible to graduate students.

## Book Information

Series: Pure and Applied Mathematics (Book 140)

Hardcover: 320 pages

Publisher: Academic Press; 2 edition (July 15, 2003)

Language: English

ISBN-10: 0120441438

ISBN-13: 978-0120441433

Product Dimensions: 6 x 0.8 x 9 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #1,496,778 in Books (See Top 100 in Books) #324 in [Books > Science & Math > Mathematics > Pure Mathematics > Functional Analysis](#) #745 in [Books > Science & Math > Mathematics > Applied > Differential Equations](#) #3720 in [Books > Textbooks > Science & Mathematics > Mathematics > Statistics](#)

## Customer Reviews

As a PhD student in mathematics focusing on theoretical PDE, I find this monograph to be one of the most useful in my collect. The book is self contained and very easy to read, requiring only a background in real analysis at the beginning graduate/senior undergrad level. This text covers a wide range of topics from the basics of topological vector spaces, all the way through interpolation methods and Besov spaces, but maintains a deep enough level so that most researchers will find this book to be very useful as a reference for the subject. In particular, I really like the completeness by which the imbedding theorems in the book are stated and proved. In addition to the content, the book is also beautifully bound and is printed on very high quality paper.

A very interesting textbook for people interested in functional analysis. It provides a great introduction for beginners but also clear and rigorous demonstrations of more technical points.

I highly recommend this book. It is a valuable reference and a great introduction to Sobolev spaces for people interested in functional analysis.

A comprehensive exposition of the Sobolev creation: the ethos of the solutions for differential equations. Ethos means dwelling, but much more than abode it means a way of being. The Sobolev spaces are the whole being of the solutions, the way they are. The way they look like. Adams and Fournier present that ethos with detail. All important and essential properties are studied rigorously and exhaustively. Those dwellings have the convenient property of being complete. This means that they are Euclidean extensions without gaps; they are continuous extensions, no holes, no hiatus. One cannot gain everything, there is always something missing. The lack of the ethos created by Sobolev is huge: the metric limitation does not guarantee scarceness of extension. This is a major problem we have to deal with. A new concept of proximity has to be invented. Also, it is very important to enable reification since a solution living in the Sobolev ethos has to be a vintage solution. The book is indispensable for graduate student and researcher that wish to struggle along the road of the non-linear differential equations.

[Download to continue reading...](#)

Sobolev Spaces, Volume 140, Second Edition (Pure and Applied Mathematics) Differential Geometry, Lie Groups, and Symmetric Spaces, Volume 80 (Pure and Applied Mathematics) Pure Pulp: FANTASTIC ADVENTURES VOL. 1: TWO COMPLETE ORIGINAL PULP MAGAZINE ISSUES FROM THE 1939 & 1940 - 250 PAGES OF PURE PULP SCIENCE FICTION (PURE PULP - COMPLETE ORIGINAL MAGAZINES) An Introduction to Differentiable Manifolds and Riemannian Geometry, Revised, Volume 120, Second Edition (Pure and Applied Mathematics) Coding Theory and Cryptography: The Essentials, Second Edition (Chapman & Hall/CRC Pure and Applied Mathematics) Biological Wastewater Treatment, Second Edition, Revised and Expanded (Lecture Notes in Pure and Applied Mathematics) Differential Equations, Dynamical Systems, and an Introduction to Chaos, Second Edition (Pure and Applied Mathematics) Fibonacci and Lucas Numbers with Applications, Volume One (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts) An introduction to nonharmonic Fourier series, Volume 93 (Pure and Applied Mathematics) The Kurzweil-Henstock Integral and Its Differential: A Unified Theory of Integration on  $\mathbb{R}$  and  $\mathbb{R}^n$  (Chapman & Hall/CRC Pure and Applied Mathematics) Binary Polynomial

Transforms and Non-Linear Digital Filters (Chapman & Hall/CRC Pure and Applied Mathematics)  
An Introduction to Multicomplex SPaces and Functions (Chapman & Hall/CRC Pure and Applied Mathematics)  
A Discrete Transition to Advanced Mathematics (Pure and Applied Undergraduate Texts)  
Theory of Orlicz SPaces (Chapman & Hall Pure and Applied Mathematics)  
Ideas for a Pure Phenomenology and Phenomenological Philosophy: First Book: General Introduction to Pure Phenomenology (Hackett Classics)  
Pure Pulp: TRUE DETECTIVE MYSTERIES VOL. 1: TWO COMPLETE ORIGINAL PULP MAGAZINE ISSUES FROM THE 1926 & 1930 - OVER 240 PAGES OF STORIES OF DETECTIVE MYSTERIES ... (PURE PULP - COMPLETE ORIGINAL MAGAZINES)  
Pure Pulp: RAILROAD STORIES VOL. 1: TWO COMPLETE ORIGINAL ISSUES FROM THE 1935 & 1936 - OVER 300 PAGES OF STORIES OF THE IRON PIKE (PURE PULP - COMPLETE ORIGINAL MAGAZINES)  
Pure Pulp: WEIRD TALES 1: TWO COMPLETE ORIGINAL PULP MAGAZINES FROM THE 1930s (PURE PULP - COMPLETE ORIGINAL MAGAZINES)  
The Geometry of Genocide: A Study in Pure Sociology (Studies in Pure Sociology)  
A Concise Introduction to Pure Mathematics, Fourth Edition (Chapman Hall/CRC Mathematics)

[Dmca](#)