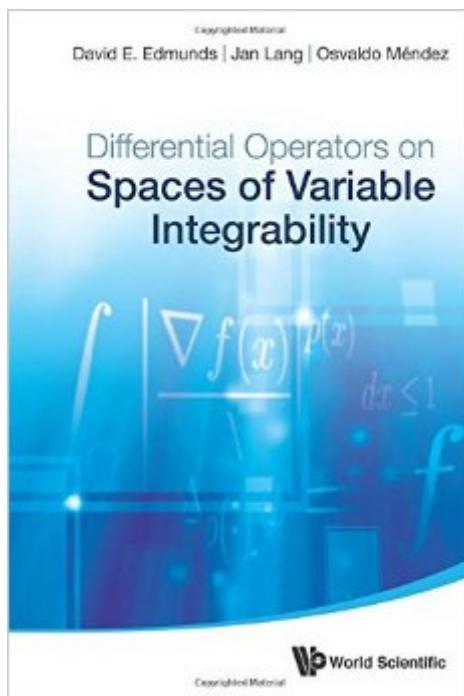


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Differential Operators On Spaces Of Variable Integrability



Synopsis

The theory of Lebesgue and Sobolev spaces with variable integrability is experiencing a steady expansion, and is the subject of much vigorous research by functional analysts, function-space analysts and specialists in nonlinear analysis. These spaces have attracted attention not only because of their intrinsic mathematical importance as natural, interesting examples of non-rearrangement invariant function spaces but also in view of their applications, which include the mathematical modeling of electrorheological fluids and image restoration. The main focus of this book is to provide a solid functional analytic background for the study of differential operators on spaces with variable integrability. It includes some novel stability phenomena which the authors have recently discovered. At the present time, this is the only book which focuses systematically on differential operators on spaces with variable integrability. The authors present a concise, natural introduction to the basic material and steadily move toward differential operators on these spaces, leading the reader quickly to current research topics. Readership: Graduates and researchers interested in differential operators and function spaces.

Book Information

Hardcover: 224 pages

Publisher: World Scientific Publishing Company (August 26, 2014)

Language: English

ISBN-10: 9814596310

ISBN-13: 978-9814596312

Product Dimensions: 6 x 0.5 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

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