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Reï-,exive spaces play a special role, particularly because of the following result. Theorem 3 Every bounded sequence in a reï-,exive space contains a weakly convergent subsequence. The following result is a basic result for the direct method in the calculus of variations.

### **Sobolev spaces, theory and applications**

Sobolev type inequalities, in particular, inequalities on manifolds, Carnotâ€™ Carathâ€™odory spaces, and metric measure spaces, trace inequalities, inequal-ities with weights,the sharpnessof constants in inequalities, embedding theo-remsindomainswith irregularboundaries,thebehaviorofmaximalfunctions in Sobolev spaces, etc.

### **SOBOLEV SPACES IN MATHEMATICS I - Home - Springer**

given to Sobolev spaces satisfying certain zero boundary conditions. Distributions and weak derivatives. We begin with the nice function space  $C^1_0(\cdot)$ . Recall that it denotes the space of infinitely differentiable functions with compact support in  $\cdot$ . Obviously  $C^1_0$  is a real vector space and can be turned into a topological vector space by a proper topology.

### **SOBOLEV SPACES AND ELLIPTIC EQUATIONS - www.math.uci.edu**

In particular, the following topics are discussed: Sobolev type inequalities on manifolds and metric measure spaces, traces, inequalities with weights, unfamiliar settings of Sobolev type inequalities, Sobolev mappings between manifolds and vector spaces, properties of maximal functions in Sobolev spaces, the sharpness of constants in inequalities, etc.

### **Sobolev Spaces in Mathematics I - Sobolev Type**

Lecture Notes on Sobolev Spaces Alberto Bressan February 27, 2012 1 Distributions and weak derivatives We denote by  $L^1_{loc}(\mathbb{R})$  the space of locally integrable functions  $f: \mathbb{R} \rightarrow \mathbb{R}$ .

### **Lecture Notes on Sobolev Spaces - Department of Mathematics**

Sobolev Spaces Introduction In this chapter we develop the elements of the theory of Sobolev spaces, a tool that, together with methods of functional analysis, provides for numerous successful attacks on the questions of existence and smoothness of

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