An Introduction to Nonsmooth Analysis

Description: Nonsmooth Analysis is a relatively recent area of mathematical analysis. The literature about this subject consists mainly in research papers and books. The purpose of this book is to provide a handbook for undergraduate and graduate students of mathematics that introduce this interesting area in detail.

- Includes different kinds of sub and super differentials as well as generalized gradients- Includes also the main tools of the theory, as Sum and Chain Rules or Mean Value theorems- Content is introduced in an elementary way, developing many examples, allowing the reader to understand a theory which is scattered in many papers and research books

Contents:

Chapter 3. The subdifferential of a Convex function: Subdifferential properties. Examples.
Chapter 4. The subdifferential. General case: Definition and basic properties. Geometrical meaning of the subdifferential. Density of subdifferentiability points. Proximal subdifferential

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