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Sinopsis

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Introduces the theory of piecewise differentiable functions with an emphasis on piecewise differentiable equations Illustrates the relevance of the study via two sample problems
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This brief provides an elementary introduction to the theory of piecewise differentiable functions with an emphasis on differentiable equations. In the first chapter, two sample problems are used to motivate the study of this theory. The presentation is then developed using two basic tools for the analysis of piecewise differentiable functions: the Bouligand derivative as the nonsmooth analogue of the classical derivative concept and the theory of piecewise affine functions as the combinatorial tool for the study of this approximation function. In the end, the results are combined to develop inverse and implicit function theorems for piecewise differentiable equations.

This Introduction to Piecewise Differentiable Equations will serve graduate students and researchers alike. The reader is assumed to be familiar with basic mathematical analysis and to have some familiarity with polyhedral theory.

Content Level » Graduate

Keywords » Bouligand derivative - NonSmooth Equations - Polyhedral theory - affine functions - piecewise differentiable function

Related subjects » Analysis - Mathematics

Table of contents ???? ?-1. Sample problems for nonsmooth equations. -2. Piecewise affine functions. -3. Elements from nonsmooth analysis. -4. Piecewise differentiable functions. -5. Sample applications.

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Elements from Nonsmooth Analysis

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