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Sobolev Spaces on Metric Measure Spaces: An Approach Based on Upper Gradients (New Mathematical Monographs)

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Sobolev Spaces on Metric Measure Spaces: An Approach Based on Upper Gradients (New Mathematical Monographs):

Analysis on metric spaces emerged in the 1990s as an independent research field providing a unified treatment of first order analysis in diverse and potentially nonsmooth settings Based on the fundamental concept of upper gradient the notion of a Sobolev function was formulated in the setting of metric measure spaces supporting a Poincar eacute inequality This coherent treatment from first principles is an ideal introduction to the subject for graduate students and a About the Author Juha Heinonen 1960 2007 was Professor of Mathematics at the University of Michigan His principal areas of research interest included quasiconformal mappings nonlinear potential theory and analysis on metric spaces He was the author of over

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