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Nota di contenuto	Transport Equation and Cauchy Problem for Non-Smooth Vector Fields -- Issues in Homogenization for Problems with Non Divergence Structure -- A Visit with the γ -Laplace Equation -- Weak KAM Theory and Partial Differential Equations -- Geometrical Aspects of Symmetrization -- CIME Courses on Partial Differential Equations and Calculus of Variations.
Sommario/riassunto	This volume provides the texts of lectures given by L. Ambrosio, L. Caffarelli, M. Crandall, L.C. Evans, N. Fusco at the Summer course held in Cetraro (Italy) in 2005. These are introductory reports on current research by world leaders in the fields of calculus of variations and partial differential equations. The topics discussed are transport equations for nonsmooth vector fields, homogenization, viscosity methods for the infinite Laplacian, weak KAM theory and geometrical aspects of symmetrization. A historical overview of all CIME courses on the calculus of variations and partial differential equations is contributed by Elvira Mascolo.