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Regularity of Entropy Solutions of Quasilinear Elliptic ...

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Fine Regularity of Solutions of Elliptic Partial ...
Quasilinear elliptic double obstacle problems with variable exponent and logarithmic growth are studied. We obtain a global Calderón-Zygmund estimate for such an irregular obstacle problem by proving that the gradient of the

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solution is as integrable as
both the nonhomogeneous term
and the gradient of the
associated double obstacles
under minimal regularity
requirements on the elliptic

...

Elliptic regularity for the
Neumann problem -
MathOverflow
Interface Problems for
Quasilinear Elliptic
Equations Wu Jinbiao School
of Mathematical Sciences,
Peking University, Beijing,
100871, People's Republic of
China Received April 24,
1998; revised November 3,
1998 In this paper we
consider interface problems
for quasilinear elliptic

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partial differential equations in two-dimensional spaces.

Regularity of a Class of Quasilinear Degenerate Elliptic ...

1.1 Dirichlet problems and oblique derivative problems

1.1.1 Statement of problem A boundary value problem is a combination of a differential equation inside a bounded domain \mathbb{R}^n and a boundary condition on the boundary of \mathbb{R}^n , i.e., $\partial\mathbb{R}^n$. The Dirichlet problem for a second order linear elliptic equation takes the following form $\Delta u = f$ in Ω ; $u = g$ on $\partial\Omega$.

ON THE REGULARITY OF THE

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SOLUTION OF PARTIAL
REGULARITY OF ...

A variational approach to a
class of quasilinear
elliptic equations not in
divergence form. Discrete &
Continuous Dynamical Systems
- S, 2012, 5 (4) : 819-830.

doi:

10.3934/dcdss.2012.5.819 [7]

Giuseppe Riey. Regularity
and weak comparison
principles for double phase
quasilinear elliptic
equations.

Regularity for a more
general class of quasilinear

...

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regularity of entropy solutions of quasilinear elliptic problems 13 (ii)
Let $\gamma_1 := pq / (r_1 + q)$
and $\gamma_2 := (p \gamma_1) / p$
. Assume $\gamma_1 < \tilde{q}$ and

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note

Regularity Problem For Quasilinear Elliptic And Parabolic ...

I'm trying to understand how to establish regularity for elliptic equations on bounded domains with Neumann data. For simplicity, let's presume we are focusing on $-\Delta u = f$ in Ω and $\frac{\partial u}{\partial \nu} = 0$ on $\partial \Omega$. Interior regularity works the same as always.

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QUASILINEAR ELLIPTIC

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EQUATIONS 127 Here, we overcome this difficulty by reducing the general regularity result to C^{α} -estimates, where α is supposed to be an L^p -function. With the aid of these a priori bounds, the existence of smooth solutions with prescribed Holder-continuous boundary data is established for "sufficiently small" subregions of Q .

Calderón-Zygmund estimates for quasilinear elliptic double ...

In mathematics, an elliptic boundary value problem is a special kind of boundary value problem which can be

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thought of as the stable state of an evolution problem. For example, the Dirichlet problem for the Laplacian gives the eventual distribution of heat in a room several hours after the heating is turned on.. Differential equations describe a large class of natural phenomena, from the heat ...

Regularity Results for Quasilinear Elliptic Equations in ...

The primary objective of this book is to give a comprehensive exposition of results surrounding the work of the authors concerning boundary regularity of weak

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solutions of second-order elliptic quasilinear equations in divergence form.

Interior $C^{1,\alpha}$ regularity of weak solutions for a ...

In this paper, we consider the regularity of degenerate elliptic quasilinear equations in the form: $\sum_{i,j} a_{ij}(x, u) u_{ij} = f(x)$, where $a_{ij}(x, u) \in C^{\alpha}(\mathbb{R}^n)$, semi-positive. Our study of the problem is motivated by the regularity problem for degenerate Monge Ampere equations $\det(u_{ij}) = k(x)$, where k is a nonnegative function. When $n=2$...

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Elliptic boundary value problem - Wikipedia
Regularity of solutions to quasilinear elliptic ...

Very powerful theory of regularity Linear elliptic equation and quadratic functionals $a_{ij}(x)$ $2L_1$ a ... Technical problems depend very often on the availability of appropriate test functions using the solution as a test function

ELLIPTIC REGULARITY FOR QUASILINEAR SYSTEMS AND STOCHASTIC ...

Regularity Results for Quasilinear Elliptic Equations in the Heisenberg Group Juan J. Manfredi · Giuseppe Mingione Received:

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date / Revised: date - c
Springer-Verlag 2007

Abstract. We prove regularity results for solutions to a class of quasilinear elliptic equations in divergence form in the Heisenberg group H_n . The model case is the non-

Regularity of solutions to quasilinear elliptic systems extending earlier results on the form boundedness problem for the Schrödinger operator to $p \geq 2$. 1. Introduction This paper concerns a study of weak solutions to certain quasilinear elliptic equations, and closely related integral

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inequalities with distributional weights. Let $p \in (1, \infty)$ and let $\Omega \subset \mathbb{R}^n$ be an open set, with $n \geq 1$.

Interface Problems for Quasilinear Elliptic Equations

of the solutions of the Neumann problem for various classes of quasilinear parabolic systems [9], [10].

The author's articles [11]-[13] investigate the regularity of solutions of the Neumann problem for elliptic systems. L^p -estimates of the gradient are derived in [11], [12], and partial regularity of the solutions in a neighborhood of the ...

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The smoothness of solutions for quasilinear systems is one of the most important problems in modern mathematical physics. This book deals with regular or strong solutions for general quasilinear second-order elliptic and parabolic systems. Applications in solid mechanics, hydrodynamics, elasticity and plasticity are described.

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Introduction. The smoothness of solutions for quasilinear systems is one of the most important problems in modern mathematical physics. This book deals with regular or strong solutions for general quasilinear second-order elliptic and parabolic systems. Applications in solid mechanics, hydrodynamics, elasticity and plasticity are described.

A regularity theory for a general class of quasilinear

...

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Frank G. Slaughter FILE ID

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on C^1 piecewise
polynomial spaces by Douglas
Jim in the

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EQUATIONS AND WEIGHTED
SOBOLEV ...

H. J. Choe & J. Lewis, On
the obstacle problem for
quasilinear elliptic
equation of p Laplacian
type, to appear in SIAM J.
Math. Analysis. 2. E.

DiBenedetto , $C^{1,\alpha}$ local
regularity of weak solutions
of degenerate elliptic
equations, Nonlinear Anal. 7
(1983), 827–850.

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