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**Quasilinear elliptic equations with quadratic growth in unbounded domains.** (English)

Zbl 0602.35036

Nonlinear Anal., Theory Methods Appl. 10, 791-804 (1986).

Die Autorinnen untersuchen das Dirichletproblem für nichtlineare elliptische Gleichungen der Form

$$-\sum_{i,j}(\partial/\partial x_j)a_{ij}(x,u)\partial/\partial x_j + f(x,u, \text{gradu}) = 0$$

in einer unbeschränkten Menge  $\Omega \subset \mathbb{R}^n$ . Unter Wachstumsvoraussetzungen an die Nichtlinearität wird Existenz einer Lösung bewiesen.

Reviewer: [W.Wendt](#)

**MSC:**

[35J65](#) Nonlinear boundary value problems for linear elliptic equations

[35J25](#) Boundary value problems for second-order elliptic equations

[35A05](#) General existence and uniqueness theorems (PDE) (MSC2000)

Cited in **2** Reviews  
Cited in **8** Documents

**Keywords:**

[existence quasilinear](#); [Dirichlet problem](#); [unbounded domain](#); [growth condition](#)

**Full Text:** [DOI](#)

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