NONLINEAR ELLIPTIC BOUNDARY VALUE PROBLEMS FOR EQUATIONS WITH RAPIDLY (OR SLOWLY) INCREASING COEFFICIENTS

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ABSTRACT. Variational boundary value problems for quasilinear elliptic systems in divergence form are studied in the case where the nonlinearities are nonpolynomial. Monotonicity methods are used to derive several existence theorems which generalize the basic results of Browder and Leray-Lions. Some features of the mappings of monotone type which arise here are that they act in nonreflexive Banach spaces, that they are unbounded and not everywhere defined, and that their inverse is also unbounded and not everywhere defined.

Introduction. This paper is concerned with the existence of solutions for variational boundary value problems for quasilinear elliptic systems in divergence form

$$A(u) = \sum_{|\alpha| \leq m} (-1)^{|\alpha|} D^{\alpha} A_{\alpha}(x, u, \dots, \nabla^{m} u)$$

on open subsets Ω of \mathbb{R}^n . Existence theorems for problems of this type were first obtained by Višik [34], [35] using compactness arguments and a priori estimates on (m+1)st derivatives. Since 1963, these problems have been extensively studied by Browder and others in the context of the theory of mappings of monotone type from a reflexive Banach space to its dual and in the case where the coefficients A_n have polynomial growth in u and its derivatives. Basic improvements of Browder's original results [3] were given by Leray-Lions [25] where the monotonicity conditions imposed on A involve only the variation of A_n , $|\alpha| = m$, with respect to the top order derivatives $\nabla^m u$, and by Browder [7], [8] where the usual coercivity assumption is replaced either by a local a priori bound and a stronger monotonicity condition or by a global a priori bound and some oddness condition.

It is our purpose here to extend the existence theorems of [3], [25], [7], [8]

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Nonlinear Elliptic Boundry Value Problems And Their Applications

Ravi P. Agarwal, Kanishka Perera

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