



# **G-Convergence and Homogenization of Nonlinear Partial Differential Operators (Mathematics and Its Applications)**

*A.A. Pankov*

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Various applications of the homogenization theory of partial differential equations resulted in the further development of this branch of mathematics, attracting an increasing interest of both mathematicians and experts in other fields. In general, the theory deals with the following: Let  $A_k$  be a sequence of differential operators, linear or nonlinear. We want to examine the asymptotic behaviour of solutions  $u_k$  to the equation  $A_k u_k = f$ , as  $k \rightarrow \infty$ , provided coefficients of  $A_k$  contain rapid oscillations. This is the case, e. g. when the coefficients are of the form  $a(\epsilon/x)$ , where the function  $a(y)$  is periodic and  $\epsilon \rightarrow 0$ . Of course, of oscillation, like almost periodic or random homogeneous, are of many other kinds interest as well. It seems a good idea to find a differential operator  $A$  such that  $u_k \rightarrow u$ , where  $u$  is a solution of the limit equation  $Au = f$ . Such a limit operator is usually called the homogenized operator for the sequence  $A_k$ . Sometimes, the term "averaged" is used instead of "homogenized". Let us look more closely what kind of convergence one can expect for  $u_k$ . Usually, we have some a priori bound for the solutions. However, due to the rapid oscillations of the coefficients, such a bound may be uniform with respect to  $k$  in the corresponding energy norm only. Therefore, we may have convergence of solutions only in the weak topology of the energy space.

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