

Iterated homogenization for the linearized elasticity
by H_e^0 -convergence
H. HADDADOU

Abstract

In this paper we show a homogeneization result for the linearized elasticity system in perforated domains with finitely many periodic scales, by using the H_e^0 -convergence[9]. It extends to the elasticity case a result given by A. Damlamian and P. Donato in [6] for elliptic problems.

[6] A. Damlamian - P. Donato: “ H^0 -convergence and iterated homogeneization”, *Asymptotic Analysis* 39 (2004), 45–60.

[9] M. El Hajji: “Homogénéisation de problèmes linéaires de diffusion et d’élasticité dans des ouverts perforés”, *Thèse de Doctorat és Sciences Mathématiques*, Université de Rouen, 1998.