
The RVE method for random sets and homogenization problems

François Willot^{*†1}

¹Centre de Morphologie Mathématique (CMM) – MINES ParisTech - École nationale supérieure des mines de Paris – 35 rue Saint-Honoré 77305 Fontainebleau cedex, France

Abstract

In this lecture, we address various theoretical and numerical tools that allow one to define and estimate the size of the representative volume element, for random sets and random functions, such as the fields representing the local physical response of heterogeneous materials.

^{*}Speaker

[†]Corresponding author: francois.willot@mines-paristech.fr