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Erratum

Erratum to “Time harmonic wave diffraction problems in materials with sign-shifting coefficients” [J. Comput. Appl. Math. doi:10.1016/j.cam.2009.08.041]

A.S. Bonnet-Ben Dhia*, P. Ciarlet Jr.

POEMS Laboratory, CNRS-INRIA-ENSTA UMR 7231 ENSTA, 32, Boulevard Victor, 75739 Paris Cedex 15, France

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ABSTRACT

We mention here an error in the statement of the configurations that are covered by the theory of T -coercivity presented in the paper “Time harmonic wave diffraction problems in materials with sign-shifting coefficients” [J. Comput. Appl. Math. doi:10.1016/j.cam.2009.08.041].

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There is an error in Section 3.1, in the statement of the configurations that are covered by the theory of T -coercivity. Namely, the checkerboard-like configurations are not covered, in the sense that the definitions of Sobolev spaces and norms on the interface Σ are incorrect in this case. However, the theory of T -coercivity remains applicable in all other cases.

So, the first line of Section 3.1 should be replaced by:

“Let Ω be an open bounded subset of \mathbb{R}^d , $d = 2, 3$. It is assumed that this domain can be split into two sub-domains Ω_1 and Ω_2 with Lipschitz-continuous boundaries: $\overline{\Omega} = \overline{\Omega_1} \cup \overline{\Omega_2}$, $\Omega_1 \cap \Omega_2 = \emptyset$ ”.

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* Corresponding author. Tel.: +33 1 45 52 43 84; fax: +33 1 45 52 52 82.

E-mail addresses: Anne-Sophie.Bonnet-Bendhia@ensta.fr (A.S. Bonnet-Ben Dhia), Patrick.Ciarlet@ensta.fr (P. Ciarlet Jr.).

URL: <http://www.ensta.fr/~ciarlet> (P. Ciarlet Jr.).