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Structure of fields in extremal 2D conducting multimaterial composites. (English)

Zbl 07974774

Willot, François (ed.) et al., Continuum models and discrete systems, CMDS-14. Proceedings of the 14th international symposium, Paris, France, June 26–30, 2023. Cham: Springer. Springer Proc. Math. Stat. 457, 75–88 (2024).

The article provides a very informal discussion about translation bounds in 2-dimensional multimaterial composites. Because notations, definitions and assumptions are not properly defined, and because of several errors and misprints (e.g. the definition of the energy density $W(\chi, e)$ after formula 3 at p.77), the discussion is very confusing and can be only partially clarified by referring to the bibliography or to other articles in the field.

For the entire collection see [Zbl 1548.35015].

Reviewer: Valeria Ricci (Roma)

MSC:

- 74Q15 Effective constitutive equations in solid mechanics
- 74Q20 Bounds on effective properties in solid mechanics
- 74E30 Composite and mixture properties
- 74P10 Optimization of other properties in solid mechanics

Keywords:

effective property bound; optimal multimaterial composite; quasiconvex envelope; compatibility

Full Text: DOI

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