

Second-gradient materials: contact interactions, stress measures, and aggregation states

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Abstract

I shall give a quick account of some recent and current work of mine, largely in collaboration with Maurizio Vianello.

References

- [1] P. Podio-Guidugli, On the aggregation state of simple materials, pp. 159-168 of *Mathematical modeling of bodies with complicated bulk and boundary behavior*, M. Šilhavý Ed., Quaderni di Matematica, **20** (2008).
- [2] P. Podio-Guidugli and M. Vianello, Hypertractions and hyperstresses convey the same mechanical information. *Continuum Mechanics and Thermodynamics*, Volume 22 (3), pp. 163-176 (2010).
- [1] P. Podio-Guidugli and M. Vianello, On a notion of second-gradient fluidity. In preparation, (2011).

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