Cornell University Library

We gratefully acknowledge supporting institutions

arXiv.org > math-ph > arXiv:1106.3065

Search or Article-id (Help | Advanced search) All papers Go!

Mathematical Physics

Comment on: I-Shih Liu: Constitutive theory of anisotropic rigid heat conductors

Wolfgang Muschik

(Submitted on 15 Jun 2011)

In I-Shih Liu's paper \C{1}, the compatibility of anisotropy and material frame indifference of a rigid heat conductor is investigated. For this purpose, the deformation gradient is introduced into the domain of the constitutive mapping. Because of the presupposed rigidity, the deformation gradient is here represented by an orthogonal tensor. The statement, that the usual procedure -- not to introduce the deformation gradient into the state space of rigid heat conductors -- causes isotropy because of the material frame indifference, is misleading.

Comments:	8 pages
Subjects:	**Mathematical Physics (math-ph)**
Cite as:	**arXiv:1106.3065v1 [math-ph]**

Submission history

From: Wolfgang Muschik [view email]
[v1] Wed, 15 Jun 2011 14:04:29 GMT (7kb)

Which authors of this paper are endorsers?

Download:

- PDF
- PostScript
- Other formats

Current browse context:
math-ph
< prev | next >
new | recent | 1106

Change to browse by:
math

References & Citations
- NASA ADS

Bookmark(what is this?)

Link back to: arXiv, form interface, contact.