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Pohozhaev and Morawetz Identities in Elastostatics and Elastodynamics

Yuri Bozhkov, Peter J. Olver

(Submitted on 8 Jun 2011)

We construct identities of Pohozhaev type, in the context of elastostatics and elastodynamics, by using the Noetherian approach. As an application, a non-existence result for forced semi-linear isotropic and anisotropic elastic systems is established.

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