



AUTHOR'S CLOSURE

Existence of a counter example for spherical domains indicates that my attempt to formulate new symmetry equivalent conditions for the stress tensor assumed to be not a priori symmetric was partially unsuccessful. Partially, because Lemma 1 and the modified dual-mixed variational principles (using nonsymmetric stresses and displacements) in my paper (Bertóti, 1997) are complete for the two-dimensional case. For arbitrary three-dimensional domains, the validity of my results is restricted to the case when the three nonsymmetric stress components, τ^{12} , τ^{23} and τ^{31} , are assumed to be constants (in finite element applications they represent three additional parameters in each element).

Finding complete symmetry equivalent conditions for the general three-dimensional case (conditions that assure the vanishing of the skew-symmetric stress tensor) as well as their incorporation into variational formulations using nonsymmetric stresses and displacements require further research. I hope that the new ideas and initial results presented in my paper (Bertóti, 1997) together with Dr Ecsedi's Letter to the Editor and my present Closure will originate further investigations in this direction.

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