

Investigation of the composite bodies weakened by cracks and multystructures bodies with difficult geometry by numerical methods

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In the present article are considered numerical solutions of the elasticity theory for the following two type tasks: 1.An anti-plane problem of the elasticity theory for composite (piece-wise homogeneous) body weakened by cracks (see [1]); 2.Multystructure body's bending problem constructed by two planes and beam (see [2]).

References:

- [1] A. Papukashvili, J. Rogava, Z. Vashakidze. On one numerical method of research of the stress-deformed condition of some multystructures with difficult geometry . TICSSAM-2015, March 21-23, 2015,Tbilisi. Conference's Proceedings, p.140-146.
- [2] A.Papukashvili, T.Davitashvili, Z.Vashakidze. Approximate Solution of Anti-plane Problem of Elasticity Theory for Composite Bodies Weakened by Cracks by Integral Equation Method. Bulletin of the Georgian National Academy of Sciences, vol. 9, no. 3, 2015. p. 50-57.