Mathematical Simulation of Thermoelastic Contact Interaction of Axisymmetric Bodies

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The method of mathematical simulation of elastic contact interaction of axisymmetric bodies under thermoloading conditions is presented. The technique is based on finite element technology. The software system based on the methodology was developed and numerical studies of polycontact interaction of axisymmetric bodies subjected to high-temperature heat and mechanical stress were conducted.

Keywords: *axially symmetric body, temperature problem, thermoelasticity, contact problem, alternating Schwartz method, finite element method.*

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