LOCAL STRESS CALCULATION FOR LINEAR ELASTICITY PROBLEM OF COMPOSITES

Sivtsev P. V., Zakharov P. E.
Yakutsk, Belinskogo, 58

In this work, we consider the numerical calculation of the effective coefficient for linear elasticity problem on separate representative element with similar concentration of inclusions. Received coefficient is used for solving the problem on coarse grid. As an example, the problem of calculating the deformation and local stress of a concrete block with the inclusion of steel fibers under the action of a three-point bending is considered.