

THE STRESSED-STRAIN STATE OF A ROTATING RING

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In the paper the boundary plane elasticity problem for the ring is solved using Muskhelishvili complex potentials method. The centrifugal forces of inertia are taken into account. The mutual rotation angle of the boundary points is obtained by analyzing the displacement field. It is shown that the centrifugal inertial forces have no effect on the mutual rotation angle. Agreement with the results known for the static case is received.