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TO CONSTRUCTION OF STRESS-STRAIN STATE
OF PHYSICALLY NON-LINEAR HEREDITARILY
PLASTIC INFINITE PLATE WITH A HOLE AT THE
ACTION OF INTERNAL PRESSURE

Abstract

The stress-strain states of physically non-linear hereditarily plastic infinite plate with the hole at the action of internal pressure are determined. The known non-linear determining relations of V.V. Moskvitin are used. The problem is solved by method of successive approximations. The exact analytical solutions of problems of each approximation are found. It is introduced the arguments in favour of using convergence of considered approximations.