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STABILITY OF CYLINDRICAL SHELLS, STRENGTHENED BY THE ANNULAR RIBS AND FILLED WITH MEDIUM AT STATIC EXTERNAL PRESSURE

Abstract

The given paper is devoted to research of stability of cylindrical shells, strengthened by the annular ribs and filled with elastic medium at uniform external pressure. Taking the shell as constructively-orthotropic, applying the asymptotic method, the formulae for parameter of the critical stresses are obtained. The analysis of influence of parameters of the external medium of the parameter of the critical stresses is done.