Abstract

The paper is devoted to the investigation of free vibration of filled cylindrical shell longitudinally strengthened and loaded by axial contracting forces. Based on the smallness of the shell thickness, the character of changeability of stress-

on the smallness of the shell thickness, the character of changeability of stressstrain state of a shell, medium and ribs, smallness of ratio of elasticity modules of medium and shell, we give asymptotic analysis of frequencies and forms of

vibrations of the given system.