

STUDY OF THIN-WALLED BARS WITH OPEN SECTIONS EXCITED BY FOLLOWER PERIODIC FORCES

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Abstract : In this paper we present a method for calculating the vibration of a thin walled bars with open section excited by follower periodic forces. Starting by the relationships of the displacements and cross-sectional rotation of thin walled bars with open section we obtain the parametric equations of vibration the parametric as three integral equations.

Then decomposing the displacements and the rotation functions of the section as time and x-coordinate section functions, we obtain a linear, homogeneous system with variable coefficients and a triple infinity of differential equations.

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