



Free Vibrations of Circular Cylindrical Shells

Anthony E. Armenàkas, Denos C. Gazis, George Herrmann

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Free Vibrations of Circular Cylindrical Shells deals with thin-walled structures that undergo dynamic loads application, thereby resulting in some vibrations.

Part I discusses the treatment of problems associated with the propagation of plane harmonic waves in a hollow circular cylinder. In such search for solutions, the text employs the framework of the three-dimensional theory of elasticity. The text explains the use of tables of natural frequencies and graphs of representative mode shapes of harmonic elastic waves bounding in an infinitely long isotropic hollow cylinder. The tables are found to be useful as they can be used to check validity and provide estimates of the range of applicability of various shell theories. The purpose of the frequency equation and that of the numerical computations likewise are considered. The book includes a computer program written in the FORTRAN language to show how it is used in the computations, except in cases when H (the thickness of shell) and L (axial half of wavelength) result in extremely small values. Part II consists of related tables and graphs.

Physicists, engineers, students, and researchers in advanced sciences will find this book of interest.



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