



User's Manual for PWP program

"Plate wave structure plotter"

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Description:

PWP allows the user to plot Rayleigh-Lamb wave structures for an aluminum plate. The Global Matrix Method is used to calculate wave structures.

Installation:

0. Requirements: 64-bit Windows OS, an internet connection, and administrator privileges.

1. Connect to your computer the disk which contains the installation file.

2. Double-click the installation file and follow the directions. Internet access is required during installation. The installer will automatically access the internet in order to download and install the Matlab Compiler Runtime Engine (MCR). The MCR is a necessary component of the PWP program.

Instructions:

1. Open the program by double-clicking "PWP.exe".

2. Choose a point from the phase velocity dispersion curves (left graph). When a point is chosen, a data cursor will appear which displays the phase velocity (cp) and frequency-thickness product (fd) selected. The displacement wave structure will be plotted on the right graph.

The PWP program was created by Jason Philtron in 2014; some of the Matlab script was written by Huidong Gao.