

Assignment: "Elastic Design Spectra"

For the following site information:

Maximum Ground Acceleration = 0.35 g

Maximum Ground Velocity = 16 in / s

Maximum Ground Displacement = 12 in

Using a damping ratio of 2%, construct the Elastic Design Spectra for mean and mean +1 standard deviation.

Note: see section 6.2 "Elastic Design Spectrum" in Chopra's Dynamics of Structures for appropriate amplification factors (included in class notes).

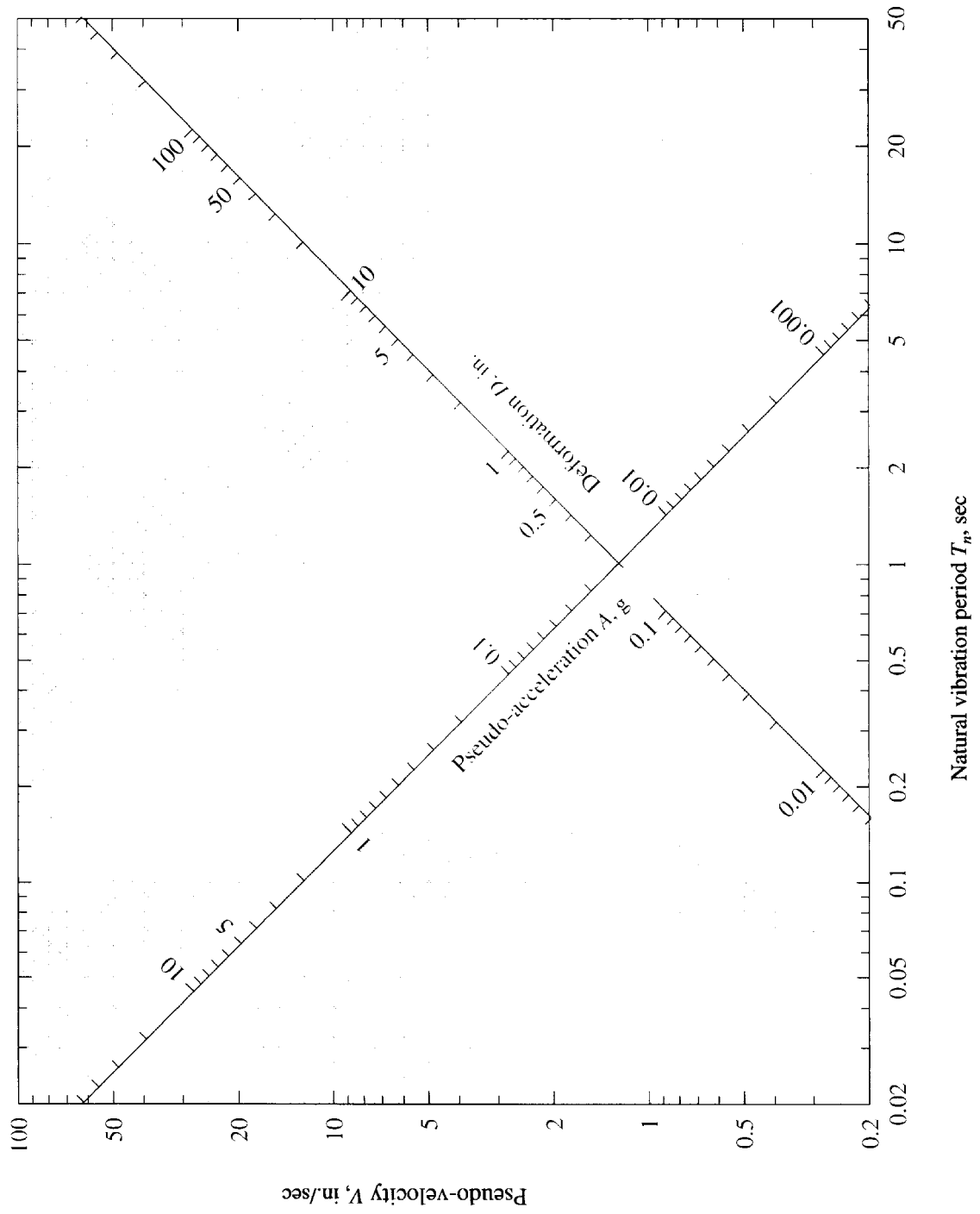


Figure A6.1 Graph paper with four-way logarithmic scales.