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Thus, $y = V \sin \omega t + y_0 \cos \omega t$ or $y = \sqrt{V^2 + y_0^2} \sin(\omega t + \psi)$ where $\tan \psi = \omega y_0 / V$.
2.2.1 Equations of Motion with Damping $m\ddot{y} + c\dot{y} + ky = 0$ (2.7) This is a second order differential equation of standard form.

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The seismic waves were recorded at different distances from the coast. Very close to the epicenter, the first accelerogram reached a maximum value of 150 cm/s^2 . Much farther, the second station showed a significant amplitude decrease with a maximum amplitude of 18 cm/s^2 .

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