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Solutions MECHANICAL VIBRATIONS THEORY AND APPLICATIONS

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Given: stress-strain curve, δP , E , σ_p Find: $\delta \Delta = f(\delta P)$, linear stiffness approximation Solution: The work done by application of a force P , resulting in a deflection Δ is $\Delta = P^2 / 2k$ (1) When the stress exceeds the proportional limit, the work is written as $W = \int_0^{\Delta} P d\Delta$ The work is also ...

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