

KKMM3423 Mechanical Vibrations

A Note on Formulae as Provided in the Exam

The following formulae are given in the exam paper

Logarithmic decrement, δ	$\delta = \frac{1}{n} \ln \left(\frac{x(t)}{x(t + nT_d)} \right) = \zeta \omega_n T_d = \frac{2\pi\zeta}{\sqrt{1 - \zeta^2}}$
Damping ratio, ζ	$\zeta = \frac{\delta}{\sqrt{4\pi^2 + \delta^2}}$
Frequency ratio, r	$r = \frac{\omega}{\omega_n}$
Magnification factor, M	$M(r, \zeta) = \frac{X}{A_{st}} = \frac{m_{unb} \omega^2 X}{F_0} = \frac{1}{\sqrt{(1 - r^2)^2 + (2\zeta r)^2}}$
Magnification factor, A ($F_0 = A\omega^2$)	$A(r, \zeta) = m_{eq} \frac{X}{A} = \frac{r^2}{\sqrt{(1 - r^2)^2 + (2\zeta r)^2}}$
Transmissibility, T	$T(r, \zeta) = \frac{X}{Y} = \sqrt{\frac{1 + (2\zeta r)^2}{(1 - r^2)^2 + (2\zeta r)^2}}$

These formulae follow the notation in the textbook by Rao, which differs from that used in the lecture notes.

In particular, for the magnification factor, A as applied to rotating imbalance cases:

	Exam Paper Notation	Lecture Note Notation
Magnification factor, $A(r, \zeta)$	$m_{unb} \frac{X}{A}$	$\frac{A_m}{m_{unb} r^2}$
Equivalent overall mass	m_{eq}	m
Amplitude	X	A
Rotating imbalance	A	$m_{unb} r^2$

Mechanical Vibrations Study Guide

Lei Shi



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