# Chapter 19

### MECHANICAL VIBRATIONS

PROBLEM NO. 1

betermine the maximum velocity and maximum acceleration of a particle which moves in simple harmonic motion with an amplitude of 3 mm and a frequency of 20 th.

SOLUTION:

trequency: f= 20 Bz

Wn = 21 f = (211) (20) = 125.00 radis

Amplifude: 2m = 3mm

simple harmonic motion:

2 = 2msin (Wnt+4)

Vaja Waxm cos (Wat + 4)

maximum Velocity:

Vm = Wn 7m = (125-64 mods) (3mm)

2 mm FF 6 = :

Vm = 0-597 mis

maximum acceleration:

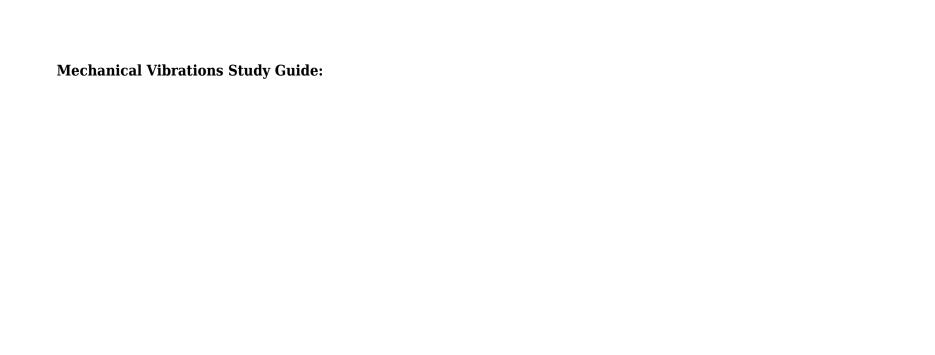
am = 7/1 7m = (125,06 rad(s) (2000)

= 47-3 x10 mmls2

am = 49.3 mls2

## **Mechanical Vibrations Study Guide**

**Haym Benaroya** 



The Enigmatic Realm of **Mechanical Vibrations Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Mechanical Vibrations Study Guide** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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