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of machine - 16-

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~~Mod-01 Lec-01~~

~~Introduction to~~

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Angular speed of

the crank = 2

$N/60 = 2 \times$

$2000/60 = 209.4$

rad/s (vA) 0 = x

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Dynamics Of

Machines = 209.4 x

$$0.05 = 10.47$$

m/s. First draw

vector oa.

(diagram a) Next

add a line in

the direction ab

(diagram b)

Finally add the

line in the

direction of ob

to find point b

and measure ob

to get the

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Dr. K. SRINIVASAN,

Professor, AU-

FRG Inst. for

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Dynamics Of

Machinery Topic

Balancing of

Rotating masses

2 What is

balancing of

rotating

members?

Balancing means

a process of

restoring a

rotor which has

unbalance to a

balanced state

by adjusting the

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the rotor

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governors,

Balancing of

rotating masses

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multiple, Free

Vibration of

mass attached to

vertical spring

Simple problems

on forced damped

vibration

Vibration

Isolation, etc.

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~~† SW~~

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~~Dynamics of~~

~~Machines~~

At the same

time, industrial

safety standards

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require better

vibration

reduction. This

book covers

model

generation,

parameter

identification,

balancing of

mechanisms,

torsional and

bending

vibrations,

vibration

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Isolation, and

the dynamic

behavior of

drives and

machine frames

as complex

systems. Typical

dynamic effects,

such as the

gyroscopic

effect, damping

and absorption,

shocks,

resonances of

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Higher Order, R

Nonlinear and
Self-Excited

Vibrations are
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many companies.

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then we can

tailor the

machine to your

specification.

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of Machines is

basically a

science of

Mechanisms and

its Dynamics

Analysis. this

subject is

divided in

basically two

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consisted of
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Equations

required to

solve problems h

= $(r_2 - r_1) \times y$

x $S_2 - S_1 = h.s, s$

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$S_2 - S_1 = h =$
 $S_2 - S_1 = r_2 - r_1 \times x$
 y Neglecting

obliquity effect,
moment due to
weight at
minimum

position, $M g$
 $+S_1 = 2FC_1 \times x$
 y

, similarly for
maximum position

$M g +S_2 = 2FC_2 \times$
 $x y S_2 - S_1 =$

$2 (FC_2 - FC_1) \times x$

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$$S_2 - S_1 = h.s, s$$
$$= S_2 - S_1 \quad r_2 - r_1 \times$$

$$[x \ y]^2 \quad FC = FC_1$$

$$+ (FC_2 - FC_1)$$

$$r - r_1 \quad r_2 - r_1 = FC_2$$

$$- (FC_2 - FC_1)$$

$$r_2 - r \quad r_2 - r_1 \cdot \text{We}$$

can neglect

obliquity effect

unless it is

mentioned ...

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~~(Governors)~~

~~SlideShare~~

$r_B = r_C = 0.3$
 $m_1 = 150 \text{ kg};$
 $m_2 = 180 \text{ kg}; c$
 $= 2/3; r_A = r_D$
 $= 0.6 \text{ m}; N = 300$
 $\text{r.p.m. or } \omega_2$
 $300 / 60 = 31.42$
 $\text{rad/s} .$ We know
that the
equivalent mass
of the rotating

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parts to be balanced per cylinder at the crank. pin, $m = m_B = m_C = m_1 + c.m_2 = 150 + 2/3 \times 180 = 270$ kg. Magnitude and direction of the balancing masses. Let m_A and $m_D =$

Magnitude of the balancing masses

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~~Solved Problems:~~

~~Dynamics of~~

~~Machines~~

~~Balancing~~

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and students
studying
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Dynamics Of

levels. Its aim
is to allow
readers to learn

and gain a
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understanding of
the dynamics of
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machines by
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~~ROTATING~~

~~MACHINES~~

a branch of the
theory of
machines and
mechanisms that
studies the
motion of
machines and
mechanisms,
taking into

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account the forces acting on them. The

dynamics of machines and mechanisms deals with the following basic problems:

definition of the laws of motion of the components of mechanisms,

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control of the
motion of the
components,
determination of
frictional
losses,
determination of
the reactions in
kinematic pairs,
and balancing of
machines and
mechanisms.

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