

DNYA	NESH	PAWA	SKAR

	DNYANESH PAWASKAR
 3	
 u(L) = QL	
3EI	
 3	
 u(L) & L	scaling law
u(L)	*
466	r
	*
¢	*
	1
q = keff u(L)	
7 7614 31-7	Ceft = 3 EI
local stiffness	47
P z=L	
Dynamical Insig	ht point mess rigid
1 Impact	● M f. Jq
O Simple	H
	LIEC IV.
4	√
Conscrvation of energy	 // = K
Conscrvation of energy	99 = 3EI
$Mg(H+S) = LKS^2$	Max dynamic L3
$Mg(H+8) = \frac{1}{2}k8$	deflection
 Quadratic for 8	acticcion
II YUACIUTIC TOT (ynamic -

DNIVA	NESH	$D\Delta \Lambda \Lambda \Lambda \Delta$	CVAD

$$\frac{S_s = Mg}{K} \quad \text{known}$$

$$\frac{S^2 - 2S_s S - 2HS_s = 0}{S} = 0$$

unknown

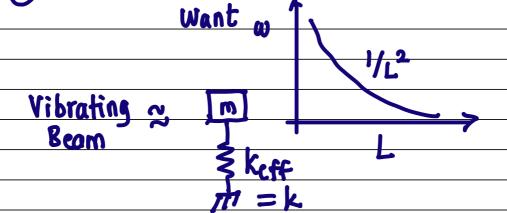
$$S = S_S \left[1 + \frac{1 + 2H}{S_S} \right]$$

Impact Dynamic load factor

$$0 H=0 S=2S_S$$
Edynamic

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$$W = \begin{array}{c|c} K & = & EI & I \\ \hline m & & I^3 & gAL \end{array}$$

/* begin aside
The real deal is the

PDE

end aside

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