

5.44

mass of tup: 2000 kg,
mass of frame: 20000 kg,
mass of anvil: 30000 kg,
mass of foundation block: 65000 kg,
stiffness of elastic pad: 1 GPa,
stiffness of isolation: 500 MPa,
striking velocity of tup: 4.5 m/s.

Solution:

(a) Natural frequencies of the system:

From problem 5.1,

$$\omega_{1,2}^2 = \frac{k_1 + k_2}{2 m_1} + \frac{k_2}{2 m_2} \pm \sqrt{\frac{1}{4} \left(\frac{k_1 + k_2}{m_1} + \frac{k_2}{m_2} \right)^2 - \frac{k_1 k_2}{m_1 m_2}}$$

$$\omega_{1,2}^2 = \frac{1.5 \times 10^9}{130000} + \frac{10^9}{100000} \pm \sqrt{\frac{1}{4} \left(\frac{1.5 \times 10^9}{65000} + \frac{10^9}{50000} \right)^2 - \frac{500 \times 10^{15}}{3.25 \times 10^9}}$$

or $\omega_1 = 62.6894 \text{ rad/sec.}$

$\omega_2 = 197.8559 \text{ rad/sec.}$

(b) Initial conditions of the system:

Let $\dot{\theta}_2$ = initial velocity of anvil and frame just after the impact of tup.

From conservation of momentum principle, momentum of tup plus momentum of m_2 just before impact = momentum of tup plus momentum of m_2 just after impact.

i.e. $m_{\text{tup}} \dot{\theta}_{\text{tup}} + m_2 (0) = m_{\text{tup}} \dot{\theta}_0 + m_2 \dot{\theta}_2$ (E₁)

where $\dot{\theta}_0$ = velocity of rebound of tup after impact

Also,

$$\text{Coefficient of restitution (e)} = \left(\frac{\text{relative velocity after impact}}{\text{relative velocity before impact}} \right)$$

i.e. $e = \frac{\dot{\theta}_2 - \dot{\theta}_0}{\dot{\theta}_{\text{tup}}} \quad \text{or} \quad \dot{\theta}_0 = \dot{\theta}_2 - e \dot{\theta}_{\text{tup}}$ (E₂)

From Eqs. (E₁) and (E₂),

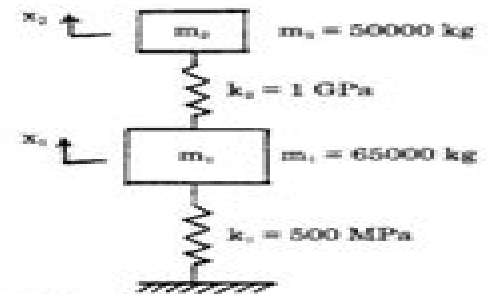
$$\dot{\theta}_2 = \frac{m_{\text{tup}} \dot{\theta}_{\text{tup}} (1 + e)}{m_{\text{tup}} + m_2}$$

For given data,

$$\dot{\theta}_2 = \frac{2000 (-4.5) (1 + 0.5)}{2000 + 50000} = -0.2596 \text{ m/s}$$

$\therefore$ Initial conditions are:

$$x_1(0) = 0, \quad \dot{x}_1(0) = 0, \quad x_2(0) = 0, \quad \dot{x}_2(0) = -0.2596 \text{ m/s.}$$



Mechanical Vibrations Rao 4th Edition Solution Manual

J Dewey



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web mar 5 2023 jakobsweg camino primitivo der ursprüngliche jakobsweg 1 bewertung pilgerweg spanien verantwortlich für diesen inhalt draussen sein camino primitivo ursprünglicher jakobsweg camino primitivo santiago de compostela the way of st james video draussen sein irene killian am 05 03 2023 hallo schön dass

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web die möglichkeiten auf den jakobswegen sind vielfältig und individuell realisierbar du legst fest wann du starten möchtest und wie lange du laufen oder mit dem rad fahren möchtest zusatznächte oder verkürzungstransfers sind für jeden ort buchbar camino tours jakobswegen in spanien und portugal

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web jan 18 2016 mezarın bulunduğu ilişkin söylencelerin ortaya çıkması ve 1189 yılında papa iii alexander in şehri kutsal ilan etmesinin ardından camino de santiago olarak bilinen hac yolu dört bir yandan hristiyanları bölgeye çekmeye başlar dünyanın dini içerikli en uzun rotası olan camino de santiago 1987 yılında ilk

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web camino primitivo jakobswegen fakten geheimtipp unter den jakobswegen 4 aller pilger wählen diesen weg 310 kilometer länge wegprofil schwer ideale reisezeit frühjahr bis herbst reisedauer 2 5 3 wochen der camino primitivo ist ein exot unter den jakobswegen

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web 16 90 preisangaben inkl ust abhängig von der lieferadresse kann die ust an der kasse variieren weitere informationen lieferung für 3 69 20 22 mai details lieferadresse wählen nur noch 10 auf lager menge in den einkaufswagen jetzt kaufen zahlung sichere transaktion versand buecher galerie ac verkäufer buecher galerie ac

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web länge 321 kilometer etappen 13 15 etappen kürzere etappen möglich dauer 2 3 wochen zeit höhenprofil täglich bergauf bergab ausdauer erforderlich unterkünfte gute infrastruktur herbergen und andere unterkünfte kosten ab 25 30 tag an

abreise ausrüstung anreise flugzeug oder bahn und bus

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web der camino primitivo ist sehr anstrengend und anspruchsvoll er ist immer noch sehr ursprünglich geblieben und führt durch die faszinierende bergwelt in nordspanien dieser ursprünglich gebliebene jakobsweg beginnt in der alten königsstadt oviedo weitere informationen auf der webseite jakobsweg lebensweg

wanderführer jakobsweg camino primitivo fernwanderweg - Sep 25 2022

web wanderführer spanien jakobsweg camino primitivo fernwanderweg blick ins buch 16 90 inkl 7 mwst zzgl versandkosten artikelnummer 978 3 86686 482 5 schlagwörter kap finisterre pilgern 141 jakobsweg oviedo santiago de compostela pilgern in spanien raimund joos spanien camino camino primitivo santiago

spanien jakobsweg camino primitivo thalia - Oct 27 2022

web das buch beschreibt den verlauf des ca 310 km langen jakobsweg camino primitivo von oviedo bis santiago de compostela und den anschließenden weg zum kap finisterre 89 5 km der weg über die berge asturiens und galiciens gilt unter insidern als eine reizvolle mischung aus pilgern und bergwandern