

3/117 $P = \frac{W h}{\Delta t}$

or $P = \frac{120(1.5)}{5} / 550 = 0.393 \text{ hp}$

Conversion: $h = 7 \text{ ft} \left(\frac{0.3048 \text{ m}}{1 \text{ ft}} \right) = 2.14 \text{ m}$

$W = 120 \text{ lb} \left(\frac{4.4482 \text{ N}}{1 \text{ lb}} \right) = 534 \text{ N}$

$P = \frac{W h}{\Delta t} = \frac{534(2.14)}{5} = 233 \text{ Watts}$

Check: $0.393 \text{ hp} \left(\frac{745.7 \text{ Watts}}{\text{hp}} \right) = 293 \text{ W}$ ✓

3/118 $v_B = 5 \frac{5280}{3600} = 7.33 \text{ ft/sec}$

$v_B^2 = 2as$; $a = \frac{7.33^2}{2(50)} = 0.538 \frac{\text{ft}}{\text{sec}^2}$

$\theta = \tan^{-1}(0.1) = 5.71^\circ$

$\sum F = ma$; $F - 90 \sin 5.71^\circ = \frac{90}{32.2}(0.538)$

$F = 10.46 \text{ lb}$

$P = Fv = 10.46(7.33) = 76.7 \frac{\text{ft-lb}}{\text{sec}}$

or $P = 76.7 / 550 = 0.1394 \text{ hp}$

3/119 Net power required = $30(1400/24) / 12,000$

$= 3.08 \text{ hp}$

Mechanical efficiency = $\frac{\text{Power required}}{\text{Power supplied}} = \frac{3.08}{4.00} = 0.764$

3/120 $U_2 = 0T$; $15(18+2) = \frac{1}{2} 80(2)^2 = \frac{1}{2} \frac{80}{32.2} v^2$

$300 - 160 = 2.795 v^2$, $v = 10.16 \text{ m/sec}$

$v^2 = 50.0$, $v = 7.07 \text{ ft/sec}$

3/121 $\theta = \tan^{-1} 0.1$, $\sin \theta = 0.0995$

$\sum F_x = ma_x$ where $U = 50 \text{ m}$
 $F - mg \sin \theta = m \frac{v^2}{R}$

$P = Fv = mgv \sin \theta + \frac{mv^3}{R}$

$= 1500(9.81) \frac{50 \sin 0.0995}{3600} + \frac{1500(50 \text{ m/sec})^3}{2(1 \text{ m})}$

$= 20.136 + 10.074 = 30.210 \text{ W}$
or $P = 40.9 \text{ kW}$

3/122 For $k = 75 \text{ mm}$, $U = 0T$

$\frac{1}{2} (0.075) R_{max} = \frac{1}{2} (0.25)(600)^2$, $R_{max} = 1.2 \text{ MN}$

For $k = 25 \text{ mm}$, $R = \frac{600}{3}(1.2) = 0.4 \text{ MN}$ or $0.4(600)^2 \text{ N}$

$U = 0T$; $\frac{1}{2} (0.025)(0.4)(600)^2 = \frac{1}{2} 10.20(600^2 - v^2)$

$v^2 = 320(10^3) \text{ (m/s)}^2$, $v = 566 \text{ m/s}$

3/123 Power output = rate of doing work

$= 300(9.81)(2) = 5886 \text{ J/s}$

$= 7.94 \text{ W}$

$= 1.063 \text{ hp}$

Efficiency $\eta = \frac{\text{Power output}}{\text{Power input}} = \frac{1.062}{1.20} = 0.892$

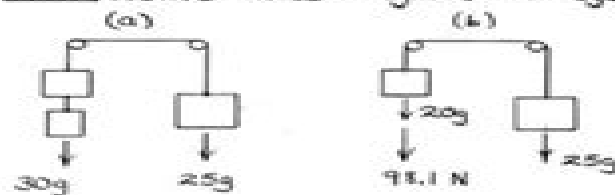
3/124 F_g gravitational force = $Gm_1 m_2 / r^2 = g R^2 m / r^2$

$U = 0T$
 $\int_1^2 \vec{F} \cdot d\vec{r} = \frac{1}{2} m v^2 - 0$
 $-\int_1^2 \frac{g R^2 m}{r^2} dr = \frac{1}{2} m v^2$; $-g R^2 \left(-\frac{1}{r} \right) \Big|_1^2 = \frac{1}{2} v^2$
 $g R^2 \left(\frac{1}{1} - \frac{1}{2} \right) = \frac{1}{2} v^2$; $v = R \sqrt{2g \left(\frac{1}{1} - \frac{1}{2} \right)}$
 $v = 6.371 \sqrt{\frac{2(9.80665)}{1020} \left(\frac{1}{0.571+500+100} - \frac{1}{0.571+500} \right)}$
 $= 6.371 \sqrt{2.2237(10^{-3})} = 1.304 \text{ km/h}$

3/125 $U_2 = 0.5T$; $\theta = \sin^{-1} \frac{2}{100} = 1.146^\circ$

$AC = 150 \text{ m}$, $m = 68 \text{ kg}$, $F = 32 \text{ kN}$, $U_2 = 0T$
 $N = mg \cos \theta$
 $U_2 = 0T$; $68(60^2)(9.81)(3) - 32(10^3)x = \frac{1}{2} 68(10^3)(3^2 - 0.5^2)$
 $2001 - 32x = 297.5$, $x = 53.2 \text{ m}$

3/126 Active-force diagrams for system:



$U = 0T$ for system:

(a) $(30-25)(9.81)2 = \frac{1}{2} (30+25)v^2$

$v = 1.889 \text{ m/s}$

(b) $[(20-25)(9.81) + 98.1]2 = \frac{1}{2} (20+25)v^2$

$v = 2.09 \text{ m/s}$

3/127 $mg = 981 \text{ N}$, $AB = 10(120)^{1/2} = 62.9 \text{ m}$

$U_2 = 0T = 0$ since $\vec{r} \cdot \vec{v} = 0$
 $1500(62.9) = 981(16.08 + \frac{1}{2}x)$
 $5 = 2(94248 - 15171)/981$
 $= 160.0 \text{ m}$

$120(1 - \cos 30^\circ) = 16.08 \text{ m}$

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july 30 2021 6 minutes read artikel fisika kelas 11 ini membahas tentang konsep momen inersia serta contoh penerapannya

di kehidupan sehari-hari coba perhatikan mainan di atas meja benda-benda yang akan diluncurkan pada lintasan

penerapan integral untuk menghitung titik berat dan momen inersia - Jan 15 2023

membuat titik berat pita menentukan momen terhadap sumbu x dan sumbu y selanjutnya menghitung titik berat tersebut dengan integral 4 untuk menghitung momen inersia langkahnya dimulai dengan membuat pita sejajar dengan garis l sumbu x dan titik berat pita kemudian dibentuk hasil kali luas

menghitung titik berat dan momen inersia penampang balok - May 19 2023

sep 7 2023 $x = 100 \text{ mm}$ $y = 82 \text{ mm}$ $z = 104 \text{ mm}$ 10 cm sementara untuk sumbu y karena masing-masing elemen siku $100 \times 100 \times 10$ posisi titik berat y nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama $y = 271 \text{ cm}$ ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

titik berat momentum sudut torsi momen inersia pdf scribd - Feb 04 2022

145 contoh soal dan pembahasan 1 sebuah partikel bermassa 0.5 gram melakukan gerak melingkar dengan kecepatan sudut tetap 2 rad/s jika jari-jari lintasan partikel 10 cm maka momentum sudut partikel itu adalah pembahasan momentum sudut partikel $l = 0.5 \times 10^{-5} \text{ kg m}^2 \cdot 2 \text{ rad/s} = 1 \times 10^{-5} \text{ kg m}^2 \cdot \text{s}^{-1}$

rumus momen inersia rumus hitung - Sep 11 2022

aug 26 2017 sedangkan bola pejal berjari-jari 5 cm dan massa 4 kg jika kedua benda tadi berotasi dengan poros melalui pusatnya maka tentukan perbandingan momen inersia silinder dan bola jawab $m = 2 \text{ kg}$ $r = 8 \text{ cm}$ 10 m $m = 4 \text{ kg}$ $r = 5 \text{ cm}$ 10 m momen inersia silinder pejal adalah $I = \frac{1}{2} m r^2 = \frac{1}{2} \cdot 2 \cdot 8^2 = 64 \text{ kg m}^2$

momen inersia konsep rumus contoh soal momen inersia - Feb 16 2023

besarnya momen inersia suatu benda bergantung terhadap beberapa faktor yaitu massa benda atau partikel geometri benda bentuk letak sumbu putar benda jarak ke sumbu putar benda lengan momen rumus momen inersia besarnya momen inersia I suatu benda bermassa yang memiliki titik putar pada sumbu yang diketahui dirumuskan sebagai berikut

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas $A = 40 \text{ mm}^2$ jarak titik berat thd garis bawah $y = 60 \text{ mm}$ $A \cdot y = 2400 \text{ mm}^3$ luas total $40 \times 60 = 2400$ $30 \times 2400 = 72000$

contoh perhitungan momen inersia seputar dunia teknik sipil - May 07 2022

dec 1 2009 sekedar pengingat saja untuk persegi momen inersia nya adalah dan lokasi titik beratnya ada pada seperdua lebar dan seperdua tinggi persegi sementara untuk segitiga siku-siku momen inersia dan lokasi titik beratnya ada

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan

lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan
luas $a \text{ mm}^2$ jarak titik berat thd alas $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 = 2400$ $30 \times 2400 \times 30 = 72000$ luas