



MECHANICS OF MATERIALS

EIGHTH EDITION

R. C. HIBBELER

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Chao Zhang



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momen inersia terhadap sumbu x yang melalui titik berat penampang z adalah $I_{x'} = I_x + A z^2$ atau $I_{x'} = I_x + A z^2$ dan $I_{y'}$ atau $I_{y'} = I_y + A z^2$ $I_{x'}$ momen inersia terhadap sumbu x adalah $I_{x'} = I_x + A z^2$ $I_{y'}$ momen inersia terhadap sumbu y adalah $I_{y'} = I_y + A z^2$ $I_{x'}$ momen inersia terhadap sumbu x adalah $I_{x'} = I_x + A z^2$ $I_{y'}$ momen inersia terhadap sumbu y adalah $I_{y'} = I_y + A z^2$

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membuat titik berat pita menentukan momen terhadap sumbu x I_x dan sumbu y I_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

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sep 7 2023 $x = 100,82104 \text{ mm}$ $10,4 \text{ cm}$ sementara untuk sumbu y karena masing-masing elemen siku $100 \times 100 \times 10$ posisi titik berat y_c nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama $y_c = 2,71 \text{ cm}$ ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

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145 contoh soal dan pembahasan 1 sebuah partikel bermassa $0,5 \text{ gram}$ 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 $1,05 \times 10^{-5} \text{ kg m}^2/\text{s}$ $1 \times 10^{-5} \text{ kg m}^2/\text{s}$

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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 $m_s = 2 \text{ kg}$ $r_s = 8 \text{ cm}$ $8 \times 10^{-2} \text{ m}$ $m_b = 4 \text{ kg}$ $r_b = 5 \text{ cm}$ $5 \times 10^{-2} \text{ m}$ momen inersia silinder pejal adalah $I_s = \frac{1}{2} m_s r_s^2 = \frac{1}{2} \times 2 \times (8 \times 10^{-2})^2 = 64 \times 10^{-4} \text{ kg m}^2$

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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 $A = 40 \times 60 = 2400 \text{ mm}^2$ $30 \times 2400 = 72000 \text{ mm}^3$ luas total $40 \times 60 + 30 \times 2400 = 72000 \text{ mm}^3$

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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

fakultas teknik jurusan teknik sipil universitas brawijaya - Dec 14 2022

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 $40 \times 60 \text{ 2400}$ 30 2400 $\times 30 \text{ 72000}$ luas