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Grade 11

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membuat titik berat pita menentukan momen terhadap sumbu x m_x dan sumbu y m_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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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 $a = 60 \text{ mm}^2$ jarak titik berat thd garis bawah $y = 40 \text{ mm}$ $a \times y = 60 \times 40 = 2400 \text{ mm}^3$ luas total $40 \times 60 = 2400 \text{ mm}^2$ $2400 \times 30 = 72000 \text{ mm}^3$

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