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145 contoh soal dan pembahasan1 sebuah partikel bermassa 0 5 gram melakukan gerak melingkar dengan kecepatan sudut tetap 2 rad s⁻¹ jika jari jari lintasan partikel 10 cm maka momentum sudut partikel itu adalah pembahasan momentum sudut partikel 1 0 5 x 10⁻⁵ kg m² 2 rad s⁻¹ x 10⁻⁵ kg m² s⁻²

rumus momen inersia rumushitung com - 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 s 2kg r s 8 cm 8 10 2 m m b 4kg r b 5 cm 5 10 2 m momen inersia silinder pejal adalah i s 1 2 m s r s 2 1 2 2 8 10 2 2 64 10 4 kg m²

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 mm² jarak titik berat thd garis bawah y mm $a \times y$ mm³ luas total 40 x 60 2400 30 2400 x 30 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 mm² jarak titik berat thd alas y mm a x y mm³ luas total 40 x 60 2400 30 2400 x 30 72000 luas