



INTERNATIONAL SIXTH EDITION

SEDRA / SMITH

MICROELECTRONIC CIRCUITS

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sep 7 2023 x 100 8 2 104 mm 10 4 cm sementara untuk sumbu y karena masing masing elemen siku 100x100x10 posisi titik berat y nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama y cy 2 71 cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

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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

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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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luas $a \text{ mm}^2$ jarak titik berat thd garis bawah $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 \text{ 2400}$ 30 2400 $\times 30 \text{ 72000}$

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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