

VOLUME V

# INTRODUCTION TO MICROELECTRONIC FABRICATION

SECOND EDITION

RICHARD C. JAEGER



Modular Series on Solid State Devices  
*Gerold W. Neudeck • Robert F. Pierret, Series Editors*

# Introduction Microelectronic Fabrication Solution

**Léo Pomar**



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yi jarak antara titik berat segmen terhadap titik 0 garis datum dari sumbu y catatan miringkan layar hp bagi pengguna seluler jika persamaan tidak cukup atau tidak nampak titik 0 garis datum saya ambil dari bawah penampang balok

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rumus momen inersia diatas dapat digunakan jika besarnya momen inersia i didalam suatu benda bermassa yg mempunyai titik putar didalam sumbunya  $i = m r^2$   $m_1 r_1^2$   $m_2 r_2^2$   $m_3 r_3^2$   $m_n r_n^2$  diketahui i adalah momen inersia  $kg m^2$  m adalah massa  $kg$  r adalah jarak kr dari titik poros atau jari jari m

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jan 30 2023 secara matematis rumus momen inersia benda tegar dinyatakan sebagai berikut dengan  $m_1$  massa partikel ke 1  $m_2$  massa partikel ke 2  $m_3$  massa partikel ke 3  $m_n$  massa partikel ke n  $r_1$  jarak partikel ke 1 ke sumbu rotasi  $r_2$  jarak partikel ke 2 ke sumbu rotasi  $r_3$  jarak partikel ke 3 ke sumbu rotasi

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nov 24 2017 momen inersia polar yaitu momen inersia terhadap suatu titik perpotongan dua garis lurus atau sumbu dengan kata lain bahwa inersia polar adalah jumlah momen inersia linier terhadap sumbu x dan sumbu y

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jun 17 2022  $i = m r^2$  penjelasan m adalah massa partikel  $kg$  r merupakan jarak partikel ke sumbu putar m satuan momen inersia adalah  $kg m^2$  pada benda pejal besar momen inersia dapat dihitung sebagai distribusi massa benda dikalikan dengan jarak sumbu putar sedangkan untuk rumus momen inersia benda tegar adalah sebagai berikut

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nov 28 2017 jadi momen inersia yang terhubung oleh seutas tali berjarak 50 cm dengan berat 100 gram adalah 0 05  $kg m^2$  baca juga contoh hukum newton 3 dan penjelasannya  $\Sigma m_n r_n^2$  rumus 2 rumus 2 digunakan jika terdapat beberapa benda atau partikel yang berotasi terhadap sumbu rotasi contoh soal rumus 2

titik pusat berat dan momen inersia massa staff - Apr 06 2022

besar momen inersia dihitung dengan rumus untuk benda berupa partikel tunggal titik massa  $i = m r^2$  untuk beberapa partikel titik massa  $i = \Sigma m r^2$

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aug 30 2016  $y = cy^2$  71 cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y hitung momen inersia ix gabungan dengan persamaan dimana adalah jarak titik berat masing masing penampang tunggal ke titik berat penampang gabungan untuk kasus di atas sehingga untuk sumbu y dimana karena titik berat

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momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah  $I_{xz}$  atau  $I_{x12} = b h^3$  dan  $I_{yz}$  atau  $I_{y12} = h b^3$  momen inersia terhadap sumbu x adalah  $I_{x12} = \frac{1}{12} b h^3$  dan  $I_{y12} = \frac{1}{12} h b^3$  momen inersia terhadap sumbu y adalah  $I_{y12} = \frac{1}{12} h b^3$  dan  $I_{x12} = \frac{1}{12} b h^3$

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jun 26 2009 adalah momen inersia terhadap sumbu x tertentu adalah momen inersia terhadap sumbu netral garis berat adalah luas bangun penampang adalah jarak dari titik berat ke sumbu momen inersia yang dicari catatan untuk tinjauan sumbu y tinggal ditukar aja kok x jadi y y jadi x

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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

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membuat titik berat pita menentukan momen terhadap sumbu x  $I_{mx}$  dan sumbu y  $I_{my}$  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  $x = 100$  mm  $y = 80$  mm  $z = 104$  mm  $10$  cm sementara untuk sumbu y karena masing-masing elemen siku  $100 \times 100 \times 10$  posisi titik berat  $C_y$  nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama  $y = 71$  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  $0.5$  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  $l = 0.5 \times 10^{-5} \text{ kg} \cdot 2 \text{ rad/s} \times 10^{-5} \text{ kg} \cdot \text{m}^2 \cdot \text{s}^{-2}$

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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  $m = 2 \text{ kg}$   $r = 8 \text{ cm}$   $8 \cdot 10^{-2} \text{ m}$   $m = 4 \text{ kg}$   $r = 5 \text{ cm}$   $5 \cdot 10^{-2} \text{ m}$  momen inersia silinder pejal adalah  $I = \frac{1}{2} m r^2 = \frac{1}{2} \cdot 2 \cdot (8 \cdot 10^{-2})^2 = 64 \cdot 10^{-4} \text{ kg} \cdot \text{m}^2$

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

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