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**Semester 8 - Mechanical Engineering**

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

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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  $ix$  atau  $ix^2$   $b$   $h^3$  dan  $izy$  atau  $iy^2$   $h$   $b^3$  momen inersia terhadap sumbu  $x$  adalah  $ix$   $ix^2$   $b$   $h^3$   $b$   $h$   $b^2$   $1$   $2$   $b$   $h$   $1$   $2$   $b^2$   $1$   $2$   $hb^3$   $hb^3$   $ix$   $1$   $3$   $hb^3$  momen inersia terhadap sumbu  $y$  adalah  $iy$   $izy$   $fa^2$   $1$   $2$   $hb^3$   $fa^2$   $1$   $2$   $hb^3$   $b$   $h$   $1$   $2$   $b$

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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 deh benda benda yang akan diluncurkan pada lintasan

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membuat titik berat pita menentukan momen terhadap sumbu  $x$   $mx$  dan sumbu  $y$   $my$  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  $x$   $100$   $8$   $2$   $104$  mm  $10$   $4$  cm sementara untuk sumbu  $y$  karena masing masing elemen siku  $l$   $100$   $x$   $100$   $x$   $10$  posisi titik berat  $cy$  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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