

# GENERAL CHEMISTRY LAB MANUAL



Dr. Abdel Fattah A. Qaromon

COMP1202

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# General Chemistry Laboratory Manual Answer Key

**Sally A. Henrie**



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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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sep 7 2023  $x$  100 8 2 104 mm 10 4 cm sementara untuk sumbu  $y$  karena masing-masing elemen siku  $l$  100x100x10 posisi titik berat  $c_y$  nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama  $y$   $c_y$  2 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 1 jika jari-jari lintasan partikel 10 cm maka momentum sudut partikel itu adalah pembahasan momentum sudut partikel  $l$  0 5 x  $10^{-5}$  kg m<sup>2</sup> 2 rad/s 1 x  $10^{-5}$  kg m<sup>2</sup> s<sup>2</sup>

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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 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 m<sup>2</sup>

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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 mm<sup>2</sup> jarak titik berat thd alas y mm a x y mm<sup>3</sup> luas total 40 x 60 2400 30 2400 x 30 72000 luas