

CHAPTER 6

STUDY GUIDE

Ionic Compounds and Metals

Lesson 6.1 Ion Formation

In your textbook, read about chemical bonds and formation of ions.

Use each of the terms below just once to complete the passage.

chemical bond	electrons	energy level	ions	noble gases
nucleus	octet	pseudo-noble gas formations	valence	

The force that holds two atoms together is called a(n) (1) Chemical Bond. Such an attachment may form by the attraction of the positively charged (2) Nucleus of one atom for the negatively charged (3) Electron of another atom, or by the attraction of charged atoms, which are called (4) Ions. The attractions may also involve (5) Valence electrons, which are the electrons in the outermost (6) Energy level. The (7) Noble Gas are a family of elements that have very little tendency to react. Most of these elements have a set of eight outermost electrons, which is called a stable (8) Octet. The relatively stable electron structures developed by loss of electrons in certain elements of groups 3, 4, 13, and 14 are called (9) Pseudo-Noble gas formations.

For each statement below, write *true* or *false*.

- | | |
|--------------|--|
| <u>False</u> | 10. A positively charged ion is called an anion. |
| <u>True</u> | 11. Elements in group 1 lose their one valence electron, forming an ion with a 1+ charge. |
| <u>False</u> | 12. Elements tend to react so that they acquire the electron structure of a halogen. |
| <u>True</u> | 13. A sodium atom tends to lose one electron when it reacts. |
| <u>True</u> | 14. The electron structure of a zinc ion (Zn^{2+}) is an example of a pseudo-noble gas formation. |
| <u>False</u> | 15. A Cl^- ion is an example of a cation. |
| <u>True</u> | 16. The ending <i>-ide</i> is used to designate an anion. |
| <u>False</u> | 17. Nonmetals form a stable outer electron configuration by losing electrons and becoming anions. |

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cara gampang memahami konsep momen inersia ruangguru - Jul 09 2022

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

penerapan integral untuk menghitung titik berat dan momen inersia - Jan 15 2023

membuat titik berat pita menentukan momen terhadap sumbu x dan sumbu 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

menghitung titik berat dan momen inersia penampang balok - May 19 2023

sep 7 2023 $x = 100$ mm $y = 82$ mm $z = 104$ mm 10 cm sementara untuk sumbu y karena masing-masing elemen siku $100 \times 100 \times 10$ posisi titik berat y nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama $y = 271$ cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

titik berat momentum sudut torsi momen inersia pdf scribd - Feb 04 2022

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 $l = 0.5 \times 10^{-5} \text{ kg} \cdot \text{m}^2 \cdot 2 \text{ rad/s} = 1 \times 10^{-5} \text{ kg} \cdot \text{m}^2 \cdot \text{s}^{-1}$

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

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 $A = 40 \times 60 = 2400$ $30 \times 2400 = 72000$

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 $40 \times 60 = 2400$ $30 \times 2400 \times 30 = 72000$ luas