

Electron Configurations Worksheet - Answers

Write the complete ground state electron configurations for the following:

- 1) lithium $1s^2 2s^1$
- 2) oxygen $1s^2 2s^2 2p^4$
- 3) calcium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$
- 4) titanium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$
- 5) rubidium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$
- 6) lead $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^2$
- 7) erbium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{12}$

Write the abbreviated ground state electron configurations for the following:

- 8) helium $1s^2$ (this one cannot be abbreviated)
- 9) nitrogen $[\text{He}] 2s^2 2p^3$
- 10) chlorine $[\text{Ne}] 3s^2 3p^5$
- 11) iron $[\text{Ar}] 4s^2 3d^6$
- 12) zinc $[\text{Ar}] 4s^2 3d^{10}$
- 13) barium $[\text{Xe}] 6s^2$
- 14) polonium $[\text{Xe}] 6s^2 4f^{14} 5d^{10} 6p^4$

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web introduction the pefp proton engineering frontier project is designed to have two beam extraction lines at the 20 mev end and 100mev end for beam utilization as shown in figure 1 the mebt and 20mev proton beam extraction system of the pefp is composed of two buncher cavities beam extraction magnet and quadrupole doublet 1

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web definition of beam optics beam optics the process of guiding a charged particle beam from to b using magnets an array of magnets which accomplishes this is a transport system or magnetic lattice recall the lorentz force on a particle $f = ma = e c v \times B$ where $m = \gamma m_0$ relativistic mass

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web pulling together superconducting electromagnets particles zipping round the lhc at close to the speed of light must follow precise paths powerful magnets keep the beams stable accurate and safe the large hadron collider lhc is currently operating at the energy of 6.5 tev per beam

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web the electron beam is bent by a toroidal magnetic coil at the beginning and end of the overlap region collisions between the continuously renewed electron beam and the ions serve to reduce the random motions of the ions leading to a high energy resolution

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web aug 1 2018 share tools in this article we present a method to design a coil producing an arbitrarily shaped magnetic field by restricting the path of the coil's wires to a regular grid the solution is then found by a simple least squares minimum

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web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of

electron beam radially and transversely these are called directional bending magnetic coils

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web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

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web an electromagnetic coil is an electrical conductor such as a wire in the shape of a coil spiral or helix electromagnetic coils are used in electrical engineering in applications where electric currents interact with magnetic fields in devices such as electric motors generators inductors electromagnets transformers and

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web number of conductor turns in a coil is n magnetic field strength h 1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where h is the strength of the magnetic field in ampere turns metre at m n is the number of turns of the coil i is the current flowing through the coil in amps l is the length of the coil in metres m then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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web a superconducting magnet is an electromagnet made from coils of superconducting wire they must be cooled to cryogenic temperatures during operation in its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire creating intense magnetic fields