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*Energetics of  
Nuclear  
Reactions -*



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*If the binding energy is greater than zero, the nucleus is stable, and it is necessary to supply energy in order to break the nucleus into its constituent parts. If the*

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*binding energy is less than zero, the nucleus is unstable, and it will disintegrate spontaneously. We also find the binding energy per nucleon to be a useful value.*

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Sample Questions  
– Chapter 26

*Start studying  
Atomic and  
Nuclear  
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*Atomic and  
Nuclear Problems  
... state why  
the binding  
energy of Pb 206  
is greater than  
that of Tl 206.  
Pb 206 has more  
nucleons and  
requires more  
energy to bind  
its ...*

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With Solutions  
College Physics  
Chapter 29

Problems: 5, 6,  
10, 14, 16, 21,  
22, 24, 36, 39,  
53, 57

5. Strategy The nucleon number  $A$  is the sum of the total number of protons  $Z$  and neutrons  $N$ . Use the Periodic Table of the

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With Solutions

elements to find  
the number of  
protons.

*Mass Defect and  
Binding Energy  
Worksheet*

*The higher the  
nuclear binding  
energy, the more  
stable the  
nucleus, meaning  
that the really  
stable nuclei*

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Practice Problems  
With Solutions

*will require  
more energy to  
split up. Mass  
Defect The  
equation for the  
reaction caused  
...*

*Mass-Energy  
Conversion, Mass  
Defect and  
Nuclear Binding  
Energy  
Binding energy*

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Binding Energy  
Practice Problems  
With Solutions

*is the missing mass which is numerically obtained by multiplying mass defect with 931. Then we get binding energy in MeV. ...*

*Solved Numerical Problems of Mass Defect, Binding Energy. Posted 3 years ago by*



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Practice Problems  
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*Saroj Bhatia.*

*Share on  
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*binding energy &  
mass defect.*

*Nuclear Binding  
Energy -*

*chem.purdue.edu*

*Print Mass-*

*Energy*

*Conversion, Mass  
Defect and*

*Nuclear Binding*

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Practice Problems  
Energy Worksheet  
With Solutions

1. What is the energy required to break a nucleus into its individual nucleons called? ... head over to the related ...

Practice Problem  
5 - Purdue  
University  
Nuclear Binding  
Page 18/42

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Binding Energy  
Practice Problems  
With Solutions

Energy. The energy required to break down a nucleus into its component nucleons is called the nuclear binding energy..  ${}^{63}\text{Cu} + 29\text{p} + 34\text{n}$  o. Nuclear binding energies are usually expressed in

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With Solutions  
terms of kJ/mole  
of nuclei or  
MeV's/nucleon.

Physics Nuclear  
Physics -  
University of  
British Columbia  
Practice  
problem: C-14,  
an isotope of  
carbon, has a  
nuclear mass of  
14.003242 u.

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*Calculate the mass defect, binding energy, and binding energy per nucleon of C-14.*

*Chapter 29*

*Problems: 5, 6, 10, 14, 16, 21, 22, 24, 36, 39*

*...*

*(b) Nuclear binding energy*

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*is the energy released in the formation of an atom from subatomic particles. (c)*

*Nuclei with highest binding energies are the most stable nuclei. (d)*

*Einstein postulated the Theory of*

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Relativity in which he stated that matter and energy are equivalent. (e) Mass number is the sum of all protons and electrons in an atom. 7.

Binding Energy -  
Problems - The  
Physics

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Practice Problems  
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Practice Problem

5. Calculate the binding energy of  $^{235}\text{U}$  if the mass of this nuclide is  $235.0349 \text{ amu}$ .

*Solution.* A neutral  $^{235}\text{U}$  atom contains 92 protons, ...

Using the conversion



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factor that relates the binding energy to the mass defect, we obtain a binding energy for  $^{235}\text{U}$  of 1793.3 MeV per atom: ...

binding energy  
= mass defect \*  
931 MeV

Binding energy

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*problems  
involving the  
calculation of  
loss of mass.*

*... Home >>*

*Nuclear, worked  
solutions,  
binding energy .*

*NUCLEAR PHYSICS*

*. Worked*

*Solutions .*

*Binding Energy .  
calculations*

*involving loss*

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Practice Problems  
of mass .  
With Solutions  
information .

Example #1 .  
Calculate the  
binding  
energy (in MeV)  
of an alpha  
particle from  
the following  
info. . . .

Mass Defect &  
Binding Energy  
Worksheet Key  
Page 27/42

# Online Library Binding Energy Practice Problems With Solutions

*This nuclear chemistry video tutorial explains how to calculate the nuclear binding energy per nucleon for an isotope as well as the mass defect. The mass defect is the difference between the mass*

# Online Library Binding Energy Practice Problems With Solutions

*Mass defect and  
binding energy  
(video) | Khan  
Academy*

*Mass Defect and  
Binding Energy  
Worksheet*

*Directions Solve  
the following  
problems. Mass  
of a proton:*

*1.007825 u Mass*

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of a neutron:

$$1.008665 \text{ u} - 1 \text{ u}$$

$$= 931 \text{ MeV}$$

1. The mass of the tritium isotope,  $\text{H}^3$ , is

$$3.0160490 \text{ u.}$$

a. What is the mass defect of this isotope? \_\_\_\_\_

b. What is the binding energy of this isotope?

\_\_\_\_\_ 2. The

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Binding Energy  
Practice Problems  
mass of a  $^{12}\text{C}_6$   
nucleus ...  
With Solutions

*Binding Energy  
Practice  
Problems With  
Nuclear  
reactions change  
the  
configuration of  
the nucleus  
which absorbs or  
releases this*

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*energy. The  
nucleus of the  
atom is held  
together by  
binding energy.  
chaos*

*Binding Energy,  
Nuclear Physics  
- worked  
solutions from A  
...*

*Mass Defect &  
Binding Energy*



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Practice Problems  
Worksheet Key  
With Solutions

Directions Solve  
the following  
problems. Mass  
of a proton:

1.007825 units

Mass of a  
neutron:

1.008665 units 1  
unit = 931 MeV

1. Tritium is an  
isotope of  
hydrogen. It is  
used in the

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watch industry  
as a  
radioluminescent  
material. It is  
laid on the dial  
and hands so  
that your watch  
can be read in  
the dark.

Atomic and  
Nuclear Problems  
Flashcards |  
Quizlet

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With Solutions

*Nuclear binding energy is the energy required to split an atom's nucleus into protons and neutrons. Mass defect is the difference between the predicted mass and the actual mass of an atom's nucleus.*

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*The binding energy of a system can appear as extra mass, which accounts for this difference.*

*Nuclear Binding  
Energy Per  
Nucleon & Mass  
Defect Problems  
- Nuclear  
Chemistry*

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Binding Energy  
Practice Problems  
With Solutions

*You will find the difference is equal to the electron's mass to three digits, implying the binding energy is small in comparison. (c) Take the ratio of the binding energy of the electron (13.6 eV) to the*

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Practice Problems  
With Solutions

*energy  
equivalent of  
the electron's  
mass (0.511  
MeV). (d)*

*Discuss how your  
answers confirm  
the stated  
purpose of this  
problem.*

*Mass-Energy  
Conversion, Mass  
Defect and*

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Practice Problems  
Nuclear Binding  
With Solutions

*The binding energy of a nucleus is the work required to separate all the nucleons that make up the nucleus. If  $m$  defect is the mass defect of Ni-62, then the binding energy*

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of Ni-62 can be found by: The charge and stability of a nucleus do not say anything about the energy of the nucleus.  $E = mc^2$  binding defect

7.11 Mass Defect  
and Binding  
Energy Answers  
Page 40/42



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*This means that the binding energy increases when small nuclei join together to form larger nuclei in a process known as nuclear fusion. For nuclei with mass numbers greater than 60, the heavier nuclei*

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*will break down  
into smaller  
nuclei in a  
process known as  
nuclear fission  
.*

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