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 $J \text{ Flux per cm}^2 = n v \text{ Total Area Of Target Nuclei Per cm}^3 = n \text{ I } \sigma \text{ I } J \text{ Reaction Rate Per cm}^3$
Assuming No Blocking = $N v n \text{ I } \sigma \text{ J I} = 1 \text{ cm}^2$ The Reaction Rate For The Two Reactants, I And J As In E.g., I (j,k) L Is Then: N I N 2th, 2024

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The Binding Energy Per Nucleon Dictates Results When

Nuclides Break Apart (fission) Or Fuse Together (fusion) (keep In Mind That ... (two Protons And Two Neutrons) ! " $= 2\ ^4\text{He} + 2\ \dots$ Or An Anti-neutrino () Neutrinos Have No Charge, Spin $1/2$, And Mass $\sim 0.1 - 1\ \text{eV}$ (?) The Beta Particle 2th, 2024

Chapter 32 Nuclear Physics And Nuclear Radiation

32-2 Radioactivity Unstable Nuclei Can Either Decay Into A Stable Nucleus Of Different N And Z , Or Can Return To The Ground State From An Excited State. Three Different Types Of Decay Particles: 1. Alpha Particles, Which Consist Of Two Neutrons And Two Protons, And Are Nuclei Of 2. Electrons 3th, 2024

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Neutron Stars. Usually, The Method Used To Constrain L Is To Measure Nuclear Neutron Skins, Which Are The Differences Between The Radii Of The Neutron And Proton Distributions In Neutron-rich Nuclei (2, 5). This Method Is Based On The Density Decrease Of Atomic Nu-clei Near Their Surface; Neutrons Are Pushed Out To A Larger Radius Depending On ... 1th, 2024

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Choice Questions 1. The Atomic Nucleus Consists Of:
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634 NUCLEAR PHYSICS AND MEDICAL APPLICATIONS A Particular Nuclear Species Is Called A Nuclide, And Is Represented By The Chemical Symbol Of Its Neutral Atom Together With Its Value Of A Written As A Pre-

Superscript. For Example, ^{13}C Represents The Nuclide With 6 Protons (because All Carbon Atoms Have Six Protons), And $^{13}_{6}\text{N}$ Neutron 2th, 2024

32 MEDICAL APPLICATIONS OF NUCLEAR PHYSICS

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1.3. Basic Principles Of Nuclear Physics

Basic Principles Of Nuclear Physics Nucleus Consists Of: Z Protons With E^+ Charge N Neutrons With No Charge. A Mass Number $A=Z+N$ Protons & Neutrons Are Bound By Strong Force: R 10-13 M. Nomenclature And Common Units Power Prefix Abbrev. 10-15 Femto F 10-12 Pico P 10-9 Nano N 10-6 Micro M 10-3 Milli M 10-2 Centi C 10-1 Deci D 103 Kilo K 2th, 2024

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