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Introductory Nuclear Physics (3rd Edition)

Step-by-step solution

Step 1 of 5

White the semi-empirical mass formula:

$$B.E = \omega_r A - \omega_r A^{(c)} - \omega_r \frac{\pi(x-1)}{A^{(c)}} + \omega_{cm} \frac{(A-2\pi)^2}{A} \times \omega_{p} A^{-cn}$$

Here, gr.g' is the binding energy, 44, is volume term, 44, is surface term, 45,41 is asymmetry term, 4, is the coulomb term, 4, is parity term. 4 is mass number, and 2 is the atomic

The parity term is positive for even 2 and even 2, negative for odd 2, and odd 3, and zero for even 2 and odd 3 or odd 2 and even 3.

The values of the terms are as follows:

$$\omega_{\rm c} = 15.55 {\rm MeV}$$

$$\omega_{\rm c}=0.72\,{\rm MeV}$$

$$\omega_{\rm min} = 23586 V$$

$$\omega_{er} = 344 \, \text{MeV}^{\prime}$$

Write the coulomb energy term.

$$E_{i_1} = \omega_i \frac{x(x-1)^{i/4}}{x^{i/4}}$$

Comment

Step 2 of 5

The mass number for 11 No. is 21 and the atomic number is 10.

The binding energy of Pring is as follows:

$$BE = \omega_s A - \omega_s A^{(1)} - \omega_s \frac{x(x-1)}{A^{(1)}} + \omega_s \frac{(A-2x)^2}{A} \otimes \omega_{p} A^{(1)}$$

Substitute 21 for of and 56 for 2.

$$\delta \mathcal{L} = \begin{bmatrix} (15.5 \, \text{MeV})(21) - (16.8 \, \text{MeV})(21)^{13} - \\ (0.72 \, \text{MeV}) \frac{10(10-1)}{(21)^{13}} + (23 \, \text{MeV}) \frac{(21-2(10))^2}{(21)} \pm 0 \end{bmatrix}$$

-175.2 MeV

The coulomb energy of m_{N_0} is as follows:

$$E_{n}=-a_{n}\frac{x\left(x-1\right) }{x^{n/2}}$$

Substitute 21 for 2 and 10 for 2

$$E_c = -(0.72 \,\text{MeV}) \frac{10(10-1)}{(21)^{11}}$$

The coulomb energy of Pinc is -23.5 MeV

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Introduction To Modern Physics: Solutions To Problems Paolo Amore, John Dirk Walecka, 2013-08-16 Our understanding of the physical world was revolutionized in the twentieth century the era of modern physics The book Introduction to Modern Physics Theoretical Foundations aimed at the very best students presents the foundations and frontiers of today s physics Typically students have to wade through several courses to see many of these topics The goal is to give them some idea of where they are going and how things fit together as they go along The book focuses on the following topics quantum mechanics applications in atomic nuclear particle and condensed matter physics special relativity relativistic

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Table of Contents Problem Solutions For Introductory Nuclear Physics

- 1. Understanding the eBook Problem Solutions For Introductory Nuclear Physics
 - The Rise of Digital Reading Problem Solutions For Introductory Nuclear Physics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Problem Solutions For Introductory Nuclear Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Problem Solutions For Introductory Nuclear Physics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Problem Solutions For Introductory Nuclear Physics

- Personalized Recommendations
- Problem Solutions For Introductory Nuclear Physics User Reviews and Ratings
- Problem Solutions For Introductory Nuclear Physics and Bestseller Lists
- 5. Accessing Problem Solutions For Introductory Nuclear Physics Free and Paid eBooks
 - Problem Solutions For Introductory Nuclear Physics Public Domain eBooks
 - Problem Solutions For Introductory Nuclear Physics eBook Subscription Services
 - Problem Solutions For Introductory Nuclear Physics Budget-Friendly Options
- 6. Navigating Problem Solutions For Introductory Nuclear Physics eBook Formats
 - o ePub, PDF, MOBI, and More
 - Problem Solutions For Introductory Nuclear Physics Compatibility with Devices
 - Problem Solutions For Introductory Nuclear Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Problem Solutions For Introductory Nuclear Physics
 - Highlighting and Note-Taking Problem Solutions For Introductory Nuclear Physics
 - Interactive Elements Problem Solutions For Introductory Nuclear Physics
- 8. Staying Engaged with Problem Solutions For Introductory Nuclear Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Problem Solutions For Introductory Nuclear Physics
- 9. Balancing eBooks and Physical Books Problem Solutions For Introductory Nuclear Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Problem Solutions For Introductory Nuclear Physics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Problem Solutions For Introductory Nuclear Physics
 - Setting Reading Goals Problem Solutions For Introductory Nuclear Physics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Problem Solutions For Introductory Nuclear Physics

- Fact-Checking eBook Content of Problem Solutions For Introductory Nuclear Physics
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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