

Introductory Nuclear Physics (3rd Edition)

Step-by-step solution

Step 1 of 5

Write the semi-empirical mass formula:

$$B.E. = a_v A - a_s A^{2/3} - a_c \frac{Z(Z-1)}{A^{1/3}} + a_{\text{sym}} \frac{(A-2Z)^2}{A} \pm a_p A^{-1/2}$$

Here, $B.E.$ is the binding energy, a_v is volume term, a_s is surface term, a_{sym} is asymmetry term, a_c is the coulomb term, a_p is parity term, A is mass number, and Z is the atomic number.

The parity term is positive for even Z and even A , negative for odd Z , and odd A and zero for even Z and odd A or odd Z and even A .

The values of the terms are as follows:

$$a_v = 15.5 \text{ MeV}$$

$$a_s = 16.8 \text{ MeV}$$

$$a_c = 0.72 \text{ MeV}$$

$$a_{\text{sym}} = 23 \text{ MeV}$$

$$a_p = 34 \text{ MeV}$$

Write the coulomb energy term,

$$E_c = a_c \frac{Z(Z-1)}{A^{1/3}}$$

Comment

Step 2 of 5

(a)

The mass number for ^{21}Ne is 21 and the atomic number is 10.

The binding energy of ^{21}Ne is as follows:

$$B.E. = a_v A - a_s A^{2/3} - a_c \frac{Z(Z-1)}{A^{1/3}} + a_{\text{sym}} \frac{(A-2Z)^2}{A} \pm a_p A^{-1/2}$$

Substitute 21 for A and 10 for Z .

$$B.E. = \left[(15.5 \text{ MeV})(21) - (16.8 \text{ MeV})(21)^{2/3} - (0.72 \text{ MeV}) \frac{10(10-1)}{(21)^{1/3}} + (23 \text{ MeV}) \frac{(21-2(10))^2}{(21)} \pm 0 \right]$$
$$= 175.2 \text{ MeV}$$

The coulomb energy of ^{21}Ne is as follows:

$$E_c = -a_c \frac{Z(Z-1)}{A^{1/3}}$$

Substitute 21 for A and 10 for Z .

$$E_c = -(0.72 \text{ MeV}) \frac{10(10-1)}{(21)^{1/3}}$$
$$= -23.5 \text{ MeV}$$

The coulomb energy of ^{21}Ne is $\boxed{-23.5 \text{ MeV}}$.

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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 quantum

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An Introduction to Differential Equations and Their Applications Stanley J. Farlow,2012-10-23 This introductory text explores 1st and 2nd order differential equations series solutions the Laplace transform difference equations much more Numerous figures problems with solutions notes 1994 edition Includes 268 figures and 23 tables *Nuclear Science Abstracts* ,1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

Introduction to Linear Control Systems Yazdan Bavafa-Toosi,2017-09-19 Introduction to Linear Control Systems is designed as a standard introduction to linear control systems for all those who one way or another deal with control systems It can be used as a comprehensive up to date textbook for a one semester 3 credit undergraduate course on linear control systems as the first course on this topic at university This includes the faculties of electrical engineering mechanical engineering aerospace engineering chemical and petroleum engineering industrial engineering civil engineering bio engineering economics mathematics physics management and social sciences etc The book covers foundations of linear control systems their raison detre different types modelling representations computations stability concepts tools for time domain and frequency domain analysis and synthesis and fundamental limitations with an emphasis on frequency domain methods Every chapter includes a part on further readings where more advanced topics and pertinent

references are introduced for further studies The presentation is theoretically firm contemporary and self contained Appendices cover Laplace transform and differential equations dynamics MATLAB and SIMULINK treatise on stability concepts and tools treatise on Routh Hurwitz method random optimization techniques as well as convex and non convex problems and sample midterm and endterm exams The book is divided to the sequel 3 parts plus appendices PART I In this part of the book chapters 1 5 we present foundations of linear control systems This includes the introduction to control systems their raison detre their different types modelling of control systems different methods for their representation and fundamental computations basic stability concepts and tools for both analysis and design basic time domain analysis and design details and the root locus as a stability analysis and synthesis tool PART II In this part of the book Chapters 6 9 we present what is generally referred to as the frequency domain methods This refers to the experiment of applying a sinusoidal input to the system and studying its output There are basically three different methods for representation and studying of the data of the aforementioned frequency response experiment these are the Nyquist plot the Bode diagram and the Krohn Manger Nichols chart We study these methods in details We learn that the output is also a sinusoid with the same frequency but generally with different phase and magnitude By dividing the output by the input we obtain the so called sinusoidal or frequency transfer function of the system which is the same as the transfer function when the Laplace variable s is substituted with $j\omega$ Finally we use the Bode diagram for the design process PART III In this part Chapter 10 we introduce some miscellaneous advanced topics under the theme fundamental limitations which should be included in this undergraduate course at least in an introductory level We make bridges between some seemingly disparate aspects of a control system and theoretically complement the previously studied subjects Appendices The book contains seven appendices Appendix A is on the Laplace transform and differential equations Appendix B is an introduction to dynamics Appendix C is an introduction to MATLAB including SIMULINK Appendix D is a survey on stability concepts and tools A glossary and road map of the available stability concepts and tests is provided which is missing even in the research literature Appendix E is a survey on the Routh Hurwitz method also missing in the literature Appendix F is an introduction to random optimization techniques and convex and non convex problems Finally appendix G presents sample midterm and endterm exams which are class tested several times

Introduction To Nuclear And Particle Physics: Solutions Manual For Second Edition Of Text By Das And Ferbel Ashok Das, Thomas Ferbel, Carl Bromberg, 2006-08-25 This manual gives the solutions to all problems given in the book by A Das and T Ferbel The problems are discussed in full detail to help both the student and teacher get a better grasp of the issues brought up in the text and in the associated problems

Introduction to the Theory of Thermal Neutron Scattering Gordon Leslie Squires, 1996-01-01 Graduate level monograph develops theoretical ideas in a relatively informal manner Nuclear scattering nuclear scattering by crystals scattering by liquids neutron optics polarization analysis much more Problem examples at chapter ends Prerequisites are some familiarity with basic concepts of quantum mechanics and

solid state physics Solutions Bibliography Appendixes 1978 edition **Enumath 97 - Proceedings Of The Second European Conference On Numerical Mathematics And Advanced Applications** Hans Georg Bock, Guido Kanschat, Rolf Rannacher, Franco Brezzi, Roland Glowinski, Yuri A Kuznetsov, Jacques Periaux, 1998-11-06 The ENUMATH conferences were established in 1995 in order to provide a forum for discussion on recent topics of numerical mathematics They seek to bring together leading experts and young scientists with special emphasis on contributions from Europe In the second ENUMATH conference in 1997 recent results and new trends in the analysis of numerical algorithms as well as their application to challenging scientific and industrial problems were discussed Apart from theoretical aspects a major part of the conference was devoted to numerical methods in interdisciplinary applications The topics covered in this proceedings include higher order finite element methods non matching grids least squares methods for partial differential equations multiscale analysis boundary element method optimization in partial differential equations solid mechanics microstructures computational fluid dynamics computational electrodynamics and semiconductors **An Introduction to the Mathematical Structure of Quantum Mechanics** F. Strocchi, 2008 Arising out of the need for Quantum Mechanics QM to be part of the common education of mathematics students this book formulates the mathematical structure of QM in terms of the C algebra of observables which is argued on the basis of the operational definition of measurements and the duality between states and observables Ill-Posed Problems in Natural Sciences Andrei N. Tikhonov, 2020-05-18 No detailed description available for Ill Posed Problems in Natural Sciences **Advances in Neural Computation, Machine Learning, and Cognitive Research III** Boris Kryzhanovsky, Witali Dunin-Barkowski, Vladimir Redko, Yury Tiumentsev, 2019-09-03 This book describes new theories and applications of artificial neural networks with a special focus on answering questions in neuroscience biology and biophysics and cognitive research It covers a wide range of methods and technologies including deep neural networks large scale neural models brain computer interface signal processing methods as well as models of perception studies on emotion recognition self organization and many more The book includes both selected and invited papers presented at the XXI International Conference on Neuroinformatics held on October 7 11 2019 in Dolgoprudny a town in Moscow region Russia **Introductory Nuclear Physics** Samuel Shaw Ming Wong, 1990 **Unified Field Mechanics II: Formulations And Empirical Tests - Proceedings Of The Xth Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier** Richard L Amoroso, Louis H Kauffman, Peter Rowlands, Gianni Albertini, 2018-01-08 This volume recording the 10th international symposium honoring noted French mathematical physicist Jean Pierre Vigier surveys and continues to develop Unified Field Mechanics UFM from the perspective of Multiverse cosmology and Topological Field Theory UFM represents a developing paradigm shift with many new parameters extending the Standard Model to a 3rd regime of Natural Science beyond Quantum Mechanics UFM is now experimentally testable thus putatively able to demonstrate the existence of large scale additional dimensionality LSXD test for QED violating phenomena and surmount the

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Mathematical Structure Of Quantum Mechanics, An: A Short Course For Mathematicians Franco Strocchi, 2005-11-17 This book arises out of the need for Quantum Mechanics QM to be part of the common education of mathematics students Rather than starting from the Dirac Von Neumann axioms the book offers a short presentation of the mathematical structure of QM using the C algebraic structure of the observable based on the operational definition of measurements and the duality between states and observables The description of states and observables as Hilbert space vectors and operators is then derived from the GNS and Gelfand Naimark Theorems For finite degrees of freedom the Weyl algebra codifies the experimental limitations on the measurements of position and momentum Heisenberg uncertainty relations and Schroedinger QM follows from the von Neumann uniqueness theorem The existence problem of the dynamics is related to the self adjointness of the differential operator describing the Hamiltonian and solved by the Rellich Kato theorems Examples are discussed which include the explanation of the discreteness of the atomic spectra Because of the increasing interest in the relation between QM and stochastic processes a final chapter is devoted to the functional integral approach Feynman Kac formula the formulation in terms of ground state correlations Wightman functions and their analytic continuation to imaginary time Euclidean QM The quantum particle on a circle as an example of the interplay between topology and functional integral is also discussed in detail

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