

# Atomic Physics, Nuclear Physics and Radioactivity: Example Problems with Solutions

## ATOMIS PHYSICS

### DISCOVERY OF THE PARTS OF THE ATOM: ELECTRONS AND NUCLEI

1. Rutherford found the size of the nucleus to be about  $10^{-15}$  m . This implied a huge density. What would this density be for gold?

Nucleus diameter =  $10^{-15}$  m    Gold mass = 197 amu    1 amu =  $1.66 \times 10^{-27}$  kg

**Solution**

$$m = 197 \text{ amu} \times 1.66 \times 10^{-27} \text{ kg/amu} \quad m = 3.27 \times 10^{-25} \text{ kg}$$

$$r = 5 \times 10^{-16} \text{ m}$$

$$m = \rho V \Rightarrow \rho = \frac{m}{V}$$

$$\rho = \frac{m}{\frac{4}{3} \pi r^3} \quad \rho = \frac{(3.27 \times 10^{-25} \text{ kg})}{\frac{4}{3} \pi (5 \times 10^{-16} \text{ m})^3} \quad \rho = \frac{(3.27 \times 10^{-25} \text{ kg})}{5 \times 10^{-46} \text{ m}^3} \quad \rho = 6.5 \times 10^{20} \text{ kg/m}^3$$

2. In Millikan's oil-drop experiment, one looks at a small oil drop held motionless between two plates. Take the voltage between the plates to be 2033 V, and the plate separation to be 2.00 cm. The oil drop (of density  $0.81 \text{ g/cm}^3$ ) has a diameter of  $4.0 \times 10^{-6}$  m . Find the charge on the drop, in terms of electron units.

**Solution**

$$F_e = q E; \quad E = \frac{V}{d}$$

$$W = m g$$

$$m = \rho V = \rho \left( \frac{4}{3} \pi r^3 \right) = \rho \left( \frac{4}{3} \pi \left( \frac{d_{\text{oil drop}}}{2} \right)^3 \right) = \rho \left( \frac{4}{3} \pi \frac{d_{\text{oil drop}}^3}{8} \right)$$

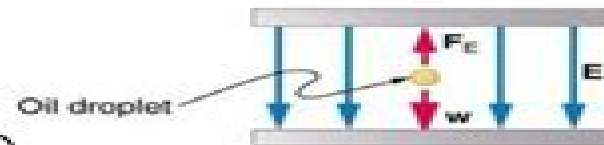
$$m = \rho \left( \frac{1}{6} \pi d^3 \right) \quad m = \frac{(810 \text{ kg/m}^3) \pi (4.0 \times 10^{-6} \text{ m})^3}{6} \quad m = 2.71 \times 10^{-14} \text{ kg}$$

$$F_e = W \Leftrightarrow q \frac{V}{d} = m g \Rightarrow q = \frac{m g d}{V}$$

$$q = \frac{(2.71 \times 10^{-14} \text{ kg})(9.8 \text{ m/s}^2)(2 \times 10^{-2} \text{ m})}{2033 \text{ V}} \quad q = 2.6 \times 10^{-18} \text{ C}$$

$$n_{\text{electrons}} = \frac{q}{e} = \frac{2.6 \times 10^{-18} \text{ C}}{1.6 \times 10^{-19} \text{ C}}$$

$$n_{\text{electrons}} \approx 16$$



# Problems In Atomic And Nuclear Physics

**Vladimir Zelevinsky, Alexander Volya**



## **Problems In Atomic And Nuclear Physics:**

Problems in atomic and nuclear physics B. Chop,2000-01-01      **Problems in Atomic and Nuclear Physics** I. E. Irodov,1983      **Problems And Solutions On Atomic, Nuclear And Particle Physics** Yung-kuo Lim,2000-03-04 This book part of the seven volume series Major American Universities PhD Qualifying Questions and Solutions contains detailed solutions to 483 questions problems on atomic molecular nuclear and particle physics as well as experimental methodology The problems are of a standard appropriate to advanced undergraduate and graduate syllabi and blend together two objectives understanding of physical principles and practical application The volume is an invaluable supplement to textbooks

Solutions to Problems in Atomic and Nuclear Physics Derek Leonard Livesey,1966      Modern Atomic And Nuclear Physics (Revised Edition) Joseph H Hamilton,Fujia Yang,2010-01-29 The book is the culmination of the authors many years of teaching and research in atomic physics nuclear and particle physics and modern physics It is also a crystallization of their intense passion and strong interest in the history of physics and the philosophy of science The book gives students a broad perspective of the current understandings of the basic structures of matter from atoms nucleus to leptons quarks and gluons along with the essential introductory quantum mechanics and special relativity Fundamentals aside the book retrospects the historical development and examines the challenging future directions of nuclear and particle physics Interwoven within the content are up to date examples of very recent developments and future plans that show in detail how the techniques and ideas of atomic nuclear and particle physics have been used and are being used to solve important problems in basic and applied areas of physics chemistry and biology that are closely linked to the prevailing major societal problems in medicine energy resources new custom made materials and environmental pollution as well as areas that encroach the broad cultural and historical interest The uncertain path of success and failure opportunities seized and missed and the axiom of probability and scientists intuition in the unfolding human drama of scientific discovery are vividly presented Throughout the highly perceptive book readers especially the students are encouraged to reflect on problems and ask questions      *Problems in atomic and nuclear physics* Igor' Evgen'evič Irodov,1983      Modern Atomic And Nuclear Physics (Revised Edition):

Problems And Solutions Manual Fujia Yang,Joseph H Hamilton,2010-06-01 This problems and solutions manual is intended as a companion to an earlier textbook Modern Atomic and Nuclear Physics Revised Edition World Scientific 2010 This manual presents solutions to many end of chapter problems in the textbook These solutions are valuable to the instructors and students working in the modern atomic field Students can master important information and concept in the process of looking at solutions to some problems and become better equipped to solve other problems that the instructors propose

**Atomic and Nuclear Physics** Thomas Albert Littlefield,2012-12-06 After the death of Dr Littlefield it was decided that I should undertake the revision of the whole of Atomic and Nuclear Physics an Introduction for the third edition and it was soon apparent that major changes were necessary I am confident that these changes would have had Dr Littlefield's approval The

prime consideration for the present edition has been to modernize at a minimum cost As much as possible of the second edition has therefore been retained but where changes have been made they have been fairly drastic Thus the chapters on fine structure wave mechanics the vector model of the atom Pauli's principle and the Zeeman effect have been completely restructured The chapters on nuclear models cosmic rays fusion systems and fundamental particles have been brought up to date while a new chapter on charm and the latest ideas on quarks has been included It is hoped that the presentation of the last named will give readers a feeling that physics research can be full of adventure and surprises

**Modern Atomic and Nuclear Physics** Fujia Yang, Joseph H. Hamilton, 2010 The textbook itself is the culmination of the authors many years of teaching and research in atomic physics nuclear and particle physics and modern physics It is also a crystallization of their intense passion and strong interest in the history of physics and the philosophy of science Together with the solution manual which presents solutions to many end of chapter problems in the textbook they are a valuable resource to the instructors and students working in the modern atomic field Publisher's website

**Atomic and Nuclear Physics** N. Subrahmanyam | Brij Lal | Jivan Seshan, 2007-12 The present edition of the book is revised as per the UGC syllabus Questions and problems at the end of each chapter have been up dated Many new solved examples are included in this edition Certain topic have been added so that students from some universities where the syllabus has been modified and upgraded may benefit Besides being a text book we hope that this benefit students appearing at the IAS AMIE and other Competitive Examinations

**Molecular Physics, Thermodynamics, Atomic and Nuclear Physics** V. L. Ginzburg, L. M. Levin, M. S. Rabinovich, 2013-10-22 Problems in Undergraduate Physics Volume IV Molecular Physics Thermodynamics Atomic and Nuclear Physics presents a set of problems in physics as well as answers and solutions in the second part This book covers several subjects including thermometry atoms kinetic theory of matter surface tension thermodynamics and thermal conductivity Organized into two parts encompassing two chapters this volume begins with several problems involving molecular physics particularly calorimetry thermal expansion and thermometry This text proceeds with a set of problems concerning atomic and nuclear physics including the quantum nature of light the wave properties of particles X rays and structure of the atom and spectra Tables at the end of this book provide information on the range energy relationships for particles in emulsions as well as well as on the uranium radium radioactive series This book is intended to be suitable for students in physics Teachers and research workers will also find this book extremely useful

**WKB Approximation in Atomic Physics** Boris Mikhailovich Karnakov, Vladimir Pavlovich Krainov, 2012-08-28 This book has evolved from lectures devoted to applications of the Wentzel Kramers Brillouin WKB or quasi classical approximation and of the method of  $1/N$  expansion for solving various problems in atomic and nuclear physics The intent of this book is to help students and investigators in this field to extend their knowledge of these important calculation methods in quantum mechanics Much material is contained herein that is not to be found elsewhere WKB approximation while constituting a fundamental area in atomic physics has not been the focus of many books

A novel method has been adopted for the presentation of the subject matter the material is presented as a succession of problems followed by a detailed way of solving them The methods introduced are then used to calculate Rydberg states in atomic systems and to evaluate potential barriers and quasistationary states Finally adiabatic transition and ionization of quantum systems are covered *Molecular physics, thermodynamics, atomic and nuclear physics* Vitalii Lazarevich Ginzburg,1965 Physics of Atomic Nuclei Vladimir Zelevinsky,Alexander Volya,2017-01-31 This advanced textbook presents an extensive and diverse study of low energy nuclear physics considering the nucleus as a quantum system of strongly interacting constituents The contents guide students from the basic facts and ideas to more modern topics including important developments over the last 20 years resulting in a comprehensive collection of major modern day nuclear models otherwise unavailable in the current literature The book emphasizes the common features of the nucleus and other many body mesoscopic systems currently in the center of interest in physics The authors have also included full problem sets that can be selected by lecturers and adjusted to specific interests for more advanced students with many chapters containing links to freely available computer code As a result readers are equipped for scientific work in mesoscopic physics

**Problems and Solutions in Nuclear Physics** Mouaiyad M. S Alabed,2012-06 The book uses to help students that study nuclear physics The book contains 242 tasks and solutions in different fields involving nuclear physics such as accelerators which accelerate the particles and calculate the relative mass and velocity of the particle nuclear reactors nuclear fission inside the reactor core radioactivity decay of the particle such as alpha and beta and gamma decay Many tasks that include the radiation doses The book uses many of concepts such as binding energy kinetic energy and radius of nuclei wavelength of the particle such as electron proton and neutron There are tasks about the density of nuclear material heat equilibrium and collision which occur between these particles and nuclei of the target produce by these collision two types of scattering they are elastic and inelastic scattering of the particle The angle of the scattering plays an important role in the calculation of kinetic energy and momentum The book also includes appendix with tables of physical constants related to these tasks This is includes a table of radioactive isotopes Student can be used this book to help him to develop his acknowledge of the many topics related to nuclear energy in general and especially nuclear physics *Problems And Solutions On Atomic, Nuclear And Particle Physics (Second Edition)* Swee Cheng Lim,Choy Heng Lai,Leong-chuan Kwek,2025-03-07 This volume is a comprehensive compilation of carefully selected questions at the PhD qualifying exam level including many actual questions from Columbia University University of Chicago MIT State University of New York at Buffalo Princeton University University of Wisconsin and the University of California at Berkeley over a twenty year period The topics covered in this book include basic nuclear properties fission and fusion symmetries in particle physics grand unification theories and experimental methods of high energy particles among many others This latest edition has been updated with more problems and solutions while the original problems are modernized excluding outdated questions and emphasizing those that rely on calculations

The problems range from fundamental to advanced in a wide range of topics easily enhancing the student's knowledge through workable exercises. Simple to solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will challenge the student's capacity on finding solutions. Nuclear Science Abstracts, 1973

**University of Michigan Official Publication** University of Michigan, 1988 Each number is the catalogue of a specific school or college of the University. **Monthly Catalog of United States Government Publications, Cumulative Index** United States. Superintendent of Documents, 1979 **American Scientific Books**, 1963

The Top Books of the Year Problems In Atomic And Nuclear Physics The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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