

## 33 Atomic Nucleus and Radioactivity

*Conceptual Physics Instructor's Manual, 12<sup>th</sup> Edition*

- 33.1 X-rays and Radioactivity
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- 33.8 Radiometric Dating
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Photo openers show two instructors with different radiation counters: Stan Micklavzina with a Geiger counter, and Roger Rassool with a scintillation counter. The impressive photo in the center is the world famous hot springs in Pamukkale, Turkey. I took a dip in these springs in 1995 and found them most intriguing. Like hot springs all around the world, their source of energy is primarily radioactive decay in Earth's interior. The 4<sup>th</sup> photo is of Leilah McCarthy of CCSF lecturing on radioactive half-life.

The personality profile for this chapter is Marie Curie. Most appropriate!

The chapter begins with X-rays and presents a relatively extensive treatment of radioactivity and its applications. Formulas for decay reactions are illustrated with supporting sketches that enable better comprehension. The background for this material goes back to Chapter 11. This chapter is a prerequisite to Chapter 34.

Ask your students if they want to produce X-rays. To do so, simply unroll a roll of Scotch tape! This creates electrostatic charges that jump across the gap between the tape and the roll, which can produce X-rays. That's if the process is done in a vacuum. In air, the electrons are too slow to produce them. But try unrolling tape in a completely dark room and you'll notice a faint glow.

The energy of gamma-ray photons is more than 100 kilo-electron-volts (keV), which is some 100,000 times more than a photon of visible light. All photons emitted by atomic nuclei are classified as gamma rays, even the rare ones of less than 100 keV. The sunlight we enjoy began as energetic gamma rays in the Sun's core and degraded into visible light during its passage through overlaying layers of gas. If watching stars on a calm night seems a tranquil experience, gamma rays betray the true violence of the universe!

In the text it is stated that a couple of round-trip flights across country exposes one to as much radiation one receives in a normal chest X-ray. More specifically, a dose of 2 millirems is typically received in flying across the United States in a jet. This is the same dose received annually from those old luminous dial wristwatches. Cosmic radiation at sea level imparts 45 millirems annually, and radiation from the Earth's crust imparts about 80 millirems. Living in a concrete or brick house makes this figure slightly higher, for these materials contain more radioactive material than wood. The human body contains small amounts of carbon-14, potassium-40, and traces of uranium and thorium daughter products, which give an annual dose of 25 millirems. So the total natural background radiation annually is about 150 millirems. This makes up about 56% of the radiation the average person encounters, the rest being mainly medical and dental X-rays.

Before being retired, the former high-flying British-French SST, the Concorde, was equipped with radiation detectors that signaled the pilots when a level of 10 millirems per hour was reached (during a

# The Atomic Nucleus And Radioactivity Conceptual Physics

**Marcia Franco**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a white center, partially overlapping the bar.

## **The Atomic Nucleus And Radioactivity Conceptual Physics:**

*Conceptual Physics--a New Introduction to Your Environment*, 1981      **Instructor's Manual to Accompany**

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**ESSENTIALS OF PHYSICS** SANJAY MORESHWAR WAGH, DILIP ABASAHEB DESHPANDE, 2012-09-27 Physics is our attempt to conceptually grasp all the happenings around us Then realizing that concepts are the free creations of the human mind helps us develop proper understanding of a subject especially during formative stages This introductory book on Physics presents careful analysis of the developments of basic concepts for the beginners It is written in a way that stimulates students and creates a sustained interest in Physics so that studying the subject is enjoyable and satisfying The physical concepts are explained clearly enough for anyone to understand In this text the exercises are provided in three different categories namely as questions as problems and as multiple choice questions The first category of exercises contains thought provoking and descriptive questions The second category of exercises involves numerical computations The third category of exercises of multiple choice questions provides a reader with a flavour of the currently popular mode of examination Intended for the introductory level college physics courses the book will also be an invaluable resource for the students preparing for various competitive examinations **Key Features** Readers can modify the given situation to design questions and problems Solved examples provide quantitative as well as qualitative features of physical situations encountered in the real life Students will be able to visualize the applicability of the laws of physics      *Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the

thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics     **Conceptual Physics** ,1977     **The Atomic Nucleus** John McArthur Reid,1984     *The Physics of Steampunk Realms: Quantum Concepts and Imaginary Machines* Marcia Franco,2025-04-07 Step into a captivating realm where science fiction meets Victorian aesthetics in *The Physics of Steampunk Realms Quantum Concepts and Imaginary Machines* This book unveils the intriguing intersection of steampunk s fantastical world and the principles of quantum physics Embark on a journey that uncovers the hidden scientific foundations of steampunk s extraordinary inventions Explore how the enigmatic quantum realm holds the key to unlocking time travel teleportation and gravity manipulation Marvel at the ingenious designs of airships automatons and steam powered contraptions each fueled by principles of quantum mechanics *The Physics of Steampunk Realms* is a captivating read for enthusiasts of both science and fiction It bridges the gap between the imaginative and the scientific offering a unique perspective that will captivate the minds of readers Whether you re a seasoned physicist or a curious explorer of steampunk lore this book promises an enlightening journey into a world where the boundaries of reality are blurred This book caters to readers with a thirst for understanding the scientific underpinnings of their favorite steampunk tales It provides a comprehensive overview of quantum physics making it accessible to those without a scientific background     **Nuclear Physics: Core Concepts** Cybellium,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www.cybellium.com](http://www.cybellium.com)     **Unravelling the Mystery of the Atomic Nucleus** Bernard Fernandez,Georges Ripka,2012-09-28 *Unravelling the Mystery of the Atomic Nucleus* is a history of atomic and nuclear physics It begins in 1896 with the discovery of radioactivity which leads to the discovery of the nucleus at the center of the atom It follows the experimental discoveries and the theoretical developments up to the end of the Fifties Unlike previous books regarding on history of nuclear physics this book methodically describes how advances in technology enabled physicists to probe the physical properties of nuclei as well as how the physical laws which govern these microscopic systems were progressively discovered The reader will gain a clear understanding of how theory is inextricably intertwined with the progress of technology *Unravelling the Mystery of the Atomic Nucleus* will be of interest to physicists and to historians of physics as well as those interested development of science     *A Textbook of*

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**Proceedings of the 2nd Annual International Conference on Mathematics, Science and Technology Education (2nd AICMSTE)** Rahmah

Johar,Rohaida Binti Mohd Saat,Cathy Wissehr,Vibol Sao,Sajid Ali Yousuf Zai,2024-02-21 This is an open access book The Organizing Committee of the Conference is delighted to invite you to participate in the 2nd International Conference on Mathematics Science and Technology Education AICMSTE 2023 which is expected to be held September 18 19 2023 at Universitas Syiah Kuala Banda Aceh Indonesia This year the conference is hybrid to reach a larger international audience and diversity This is a hybrid conference to reach a larger international audience and diversity We look forward to meeting you in Banda Aceh

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Franses,2015-10-22 The laws of modern physics are seen as the bedrock of our understanding of the material world that surrounds us Newton's and Maxwell's mathematics reliably describe behaviour and events in the world and have given us the age of technology from telephones to space travel Yet the founders of modern scientific thought such as Einstein Bohr Heisenberg and Pauli struggled to pin down the paradoxical concepts they needed to present workable theories as the subatomic and quantum world began to reveal its mysteries At the height of the debate about the nature of matter Einstein famously objected that God does not play dice Starting from the significance of zero and one with their contrasting Eastern and Western philosophies Franses unravels the knots that surround elusive concepts such as matter chance time light darkness emptiness and form Exploring current models in science he asks does light travel in time Or is it time that travels in light How can emptiness hold potential Can chance create order What does our own experience mean in all this In this stimulating book the author invites us to travel through a journey and a life full of surprise and ambiguity from paradoxes in physics to the meaning of time and the mythology of creation

**The Origin of the Concept of Nuclear Forces L.M**

Brown,H Rechenberg,1996-01-01 The concept of fundamental nuclear forces emerged gradually during the start of the 1930s and reached our present level of description some time before the 1950s The Origin of the Concept of Nuclear Forces presents a unified comprehensive account of the history of this important part of the modern scientific worldview In addition the authors foremost experts in the field examine the sociological and philosophical aspects of the story in light of the various theories of scientific development The book contains analyses of published work archival materials and original interviews It will be appealing primarily to historians of science and physicists interested in the roots of their field

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