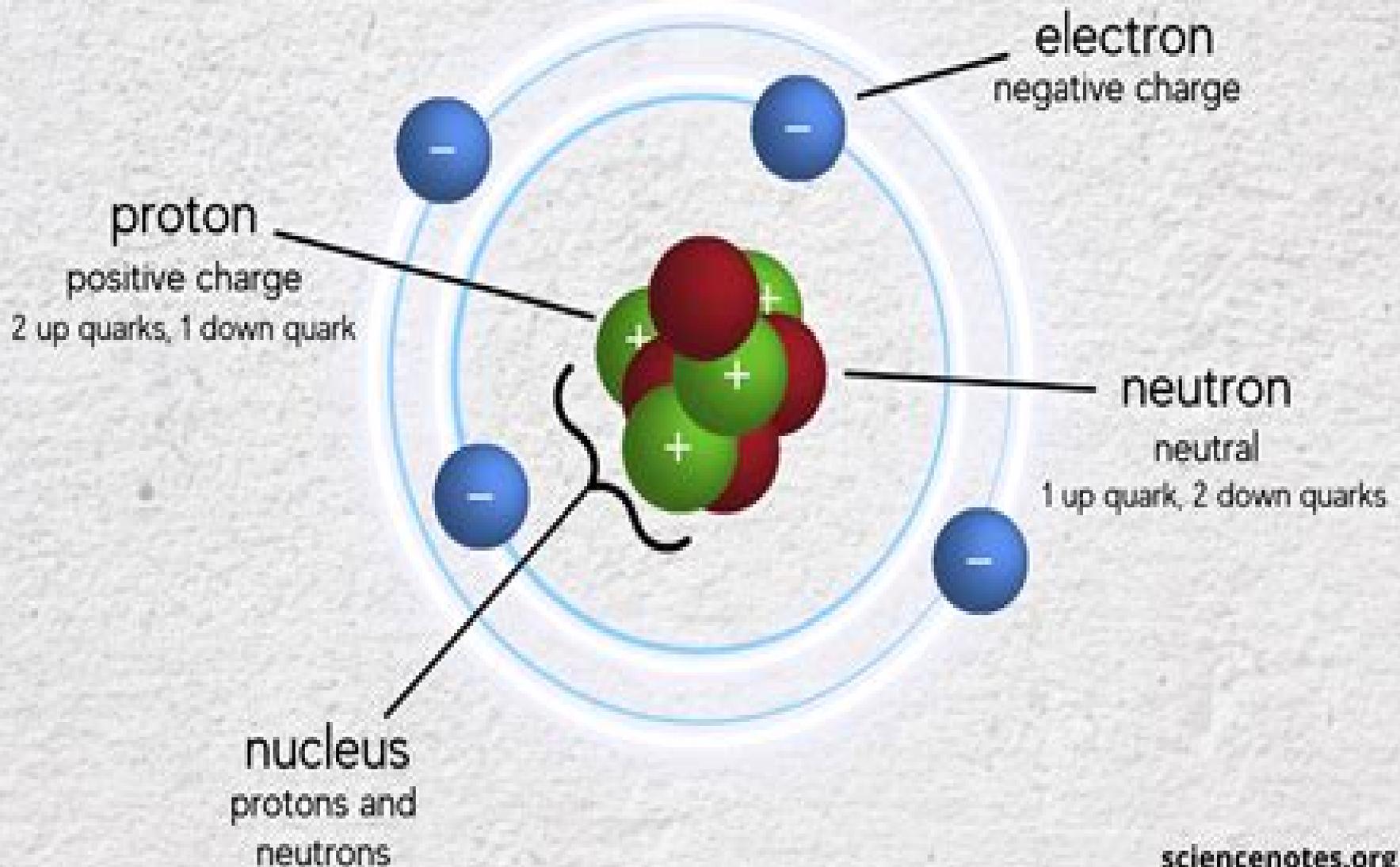


Subatomic Particles

The three subatomic particles in an atom are protons, neutrons and electrons.



Chapter 12 Nuclear Physics Subatomic Particles And Radiation

**Simon R. Cherry, James A.
Sorenson, Michael E. Phelps**



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transformation of unstable nuclei to more stable nucleon configurations the mechanisms of the main transformation pathways and their kinetics the character of the radiation emitted from these processes the interaction of this radiation with condensed matter and finally nuclear reaction processes to produce new nuclei

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Principles and Practice of Radiation Therapy: Physics, simulation, and treatment planning Charles M. Washington, Dennis T. Leaver, 1996

College Physics Franklin Miller, Dietrich Schroer, 1987 New edition of a standard college physics textbook

Radioactivity Michael F. L'Annunziata, 2016-05-13 A recipient of the PROSE 2017 Honorable Mention in Chemistry Physics Radioactivity Introduction and History From the Quantum to Quarks Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth radiation of cosmic origins and an introduction to the atom and its nucleus The book also includes historical accounts of the lives works and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present These leaders in the field have contributed to our knowledge of the science of the atom its nucleus nuclear decay and subatomic particles that are part of our current knowledge of the structure of matter including the role of quarks leptons and the bosons force carriers Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present Provides a detailed account of nuclear radiation its origin and properties the atom its nucleus and subatomic particles including quarks leptons and force carriers bosons Includes fascinating biographies of the pioneers in the field including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings

Introduction to Nuclear and Particle Physics Ashok Das, Thomas Ferbel, 1994 Stresses the reasoning chain of experimental observation the development of physical principles and how to make math quantitative models Includes more modern material than its competitors Chapters on the

techniques of the fields provide a unique perspective and connect the methodologies of nuclear and particle physics In addition explanations of the connection between formalism of theory and more classical concepts bring the theory down to a more understandable level

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