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Sommario/riassunto

This book, 'Nuclear Physics 2' by Ibrahima Sakho, provides an in-depth exploration of nuclear physics, focusing on the Big Bang model and the processes of nucleosynthesis. The text delves into the red-shift phenomenon, Doppler effect, and the cosmic microwave background, offering insights into the universe's evolution post-Big Bang. The book examines various nucleosynthesis processes such as primordial, stellar, and explosive nucleosynthesis, and discusses the formation of chemical

elements and compound nuclei. Additionally, it covers applications in radiometric dating methods, including Carbon-14, Potassium-Argon, and Uranium-Thorium dating, highlighting their historical development and practical applications. Targeted at researchers and students in physics and related fields, the book aims to enhance understanding of nuclear processes and their implications in cosmology and geology.