1. Record Nr. UNINA9910457979503321 Autore Choppin Gregory R Titolo Radiochemistry and nuclear chemistry [[electronic resource] /] / by Gregory R. Choppin, Jan-Olov Liljenzin, and Jan Rydberg Woburn, MA,: Butterworth-Heinemann, c2002 Pubbl/distr/stampa **ISBN** 1-281-07145-5 9786611071455 0-08-051566-5 Edizione [3rd ed.] Descrizione fisica 1 online resource (725 p.) Altri autori (Persone) ChoppinGregory R LiljenzinJan-Olov RydbergJan 541.3/8 Disciplina Soggetti Radiochemistry Nuclear chemistry Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto Cover; Contents; Foreword; Chapter 1. Origin of Nuclear Science; Chapter 2. Nuclei, Isotopes and Isotope Separation; Chapter 3. Nuclear Mass and Stability; Chapter 4. Unstable Nuclei and Radioactive Decay; Chapter 5. Radionuclides in Nature; Chapter 6. Absorption of Nuclear Radiation; Chapter 7. Radiation Effects on Matter; Chapter 8. Detection and Measurement Techniques; Chapter 9. Uses of Radioactive Tracers; Chapter 10. Cosmic Radiation and Elementary Particles; Chapter 11. Nuclear Structure: Chapter 12. Energetics of Nuclear Reactions: Chapter 13. Particle Accelerators Chapter 14. Mechanics and Models of Nuclear ReactionsChapter 15. Production of Radionuclides; Chapter 16. The Transuranium Elements; Chapter 17. Thermonuclear Reactions: the Beginning and the Future: Chapter 18. Radiation Biology and Radiation Protection; Chapter 19. Principles of Nuclear Power; Chapter 20. Nuclear Power Reactors; Chapter 21. Nuclear Fuel Cycle; Chapter 22. Behavior of Radionuclides

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Sommario/riassunto

Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties. This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCA