

Radiochemistry And Nuclear Chemistry Theory And Applications

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The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well-structured and readily accessible manner, dealing with the theory and fundamentals in the first half, followed by chapters devoted to such specific topics as nuclear energy and reactors, radiotracers, and radionuclides in the life sciences.

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The most important types of radioactive particles are alpha particles, beta particles, gamma rays, and X-rays. An alpha particle, α , is equivalent to a helium nucleus, ${}^4_2\text{He}$. When an atom emits an alpha particle, the product is a new atom whose atomic number and atomic mass number are, respectively, 2 and 4 less than its unstable parent.

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Nuclear Models includes discussions of nucleon interactions, the shell, collective, and unified models, and brief mention of pairing correlations; Nuclear Processes as Chemical Probes treats the Mossbauer effect, positronium “chemistry,” and chemical effects on angular correlations. One topic not brought up to date is the prediction of spins of odd-odd nuclides.

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