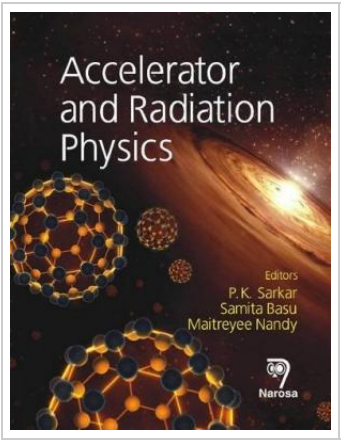

Accelerator and Radiation Physics

By P. K. Sarkar, Samita Basu, Maitreyee Nandy

Narosa Publishing House. Hardback. Condition: new. BRAND NEW, Accelerator and Radiation Physics, P. K. Sarkar, Samita Basu, Maitreyee Nandy, ACCELERATOR AND RADIATION PHYSICS encompasses radiation shielding design and strategies for hadron therapy accelerators, neutron facilities and laser based accelerators. A fascinating article describes detailed transport theory and its application to radiation transport. Detailed information on planning and design of a very high energy proton accelerator can be obtained from the article on radiological safety of J-PARC. Besides safety for proton accelerators, the book provides information on radiological safety issues for electron synchrotron and prevention and preparedness for radiological emergencies. Different methods for neutron dosimetry including LET based monitoring, time of flight spectrometry, track detectors are documented alongwith newly measured experimental data on radiation interaction with dyes, polymers, bones and other materials. Design of deuteron accelerator, shielding in beam line hutches in synchrotron and 14 MeV neutron generator, various radiation detection methods, their characterization, dose mapping procedures and simulation of radiation environment are also discussed.

Reviews

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