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offering the most current and complete introduction to nuclear engineering available this book contains new information on french russian and japanese nuclear reactors all units have been revised to reflect current standards includes discussions of new reactor types including the ap600 abwr and sbwr as well as an extensive section on non us design reactors the nuclear navy and its impact on the development of nuclear energy binding energy and such topics as the semi empirical mass formula and elementary quantum mechanics and solutions to the diffusion equation and a more general derivation of the point kinetics equation topics in reactor safety include a complete discussion of the chernobyl

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this book introduces students of physics and nuclear engineering to reactor physics in a simple and intuitive way it presents and explains the main mathematical concepts and ideas of reactor physics in a very simple form but without losing scientific or mathematical rigour it is an

ideal book for dealing with and getting started with radioactivity calculations or basic problems in reactor physics

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