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basis of their behavior in nuclear reactors. At the core of neutron interactions is the concept of the cross section that is, the cross-sectional area of a

nucleus as it appears to an oncoming neutron. Such cross sections, their dependence on the neutron's kinetic energy, and the relative probabilities that a collision will result in

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The nuclear fission reactions that underlie power reactors that is, reactors built to produce electric power, propulsion for ships, or other forms of energy use convert measurable amounts of mass to energy. Thus an appropriate place to begin a study of the physics of nuclear power is with the underlying nuclear reactions. To understand the large

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A knowledge of atomic and nuclear physics is essential to nuclear engineers, who deal with nuclear reactors. It should be noted that atomic and nuclear physics is a very extensive branch of science. Nuclear reactor physics belongs to an applied physics as a particle physics or nuclear chemistry. These branches have common fundamentals.

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