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Description The text is designed for junior and senior level Nuclear Engineering students. The third edition of this highly respected text offers the most current and complete introduction to nuclear engineering available. Introduction to Nuclear Engineering has been thoroughly updated with new information on French, Russian, and Japanese nuclear reactors. All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added. Provides students with the latest in the technology of the industry. Enables a clearer understanding of the importance and use of nuclear power. Increases understanding of the origin of nuclear energy. Enables students to comprehend the theory. Prepares students for international interactions. Helps readers to appreciate the inherent safety of nuclear energy and need for safety consciousness. Atomic and Nuclear Physics. Atomic and Nuclear Structure. Atomic and Molecular Weight. Atomic and Nuclear Radii. Excited States and Radiation. Nuclear Stability and Radioactive Decay. Gases, Liquids, and Solids. Interaction of Radiation with Matter. Energy Loss in Scattering Collisions. Nuclear Reactors and Nuclear Power. The Fission Chain Reaction. Components of Nuclear Reactors. Neutron Diffusion and Moderation. The Equation of Continuity. Solutions of the Diffusion Equation. Two-Group Calculation of Neutron Moderation. The One-Group Critical Equation. Classification of Time Problems. Control Rods and Chemical Shim. Temperature Effects on Reactivity. Core Properties during Lifetime. Heat Removal from Nuclear Reactors. Heat Generation in Reactors. Heat Flow by Conduction. Heat Transfer to Coolants. Thermal Design of a Reactor. History of Radiation Effects. The Biological Effects of Radiation. Quantitative Effects of Radiation on the Human Species. Calculations of Radiation Effects. Natural and Man-Made Radiation Sources. Standards of Radiation Protection. Computations of Exposure and Dose. Standards for Intake of Radionuclides. Exposure from γ -Ray Sources. Infinite Planar and Disc Sources. Principles of Reactor Shielding. The Reactor Shield Design: Reactor Licensing, Safety, and the Environment. Governmental Authority and Responsibility. Principles of Nuclear Power Plant Safety. Dispersion of Effluents from Nuclear Facilities. Radiation Doses from Nuclear Plants.

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