Introduction to Nuclear Engineering

Third Edition

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Introduction To Nuclear Engineering Solution 3rd Edition

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Introduction to Nuclear Engineering Supathorn Phongikaroon,2023-09-29 Introduction to Nuclear Engineering serves as an accompanying study guide for a complete introductory single semester course in nuclear engineering It is structured for general class use alongside fundamental nuclear physics and engineering textbooks and it is equally suited for individual self study. The book begins with basic modern physics with atomic and nuclear models. It goes on to cover nuclear energetics radioactivity and decays and binary nuclear reactions and basic fusion Exploring basic radiation interactions with matter the book finishes by discussing nuclear reactor physics nuclear fuel cycles and radiation doses and hazard assessment Each chapter highlights basic concepts examples problems with answers and a final assessment. The book is intended for first year undergraduate and graduate engineering students taking Nuclear Engineering and Nuclear Energy courses.

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