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"Nuclear Reactor Physics and Engineering offers information on analysis, design, control, and operation of nuclear reactors. The author explores the fundamentals and presents the mathematical formulations that are grounded in differential equations and linear algebra. This book is updated to reflect the key findings of the 2023 National Academy of Sciences report. Revised materials include physical and engineering characteristics of advanced nuclear reactors and effective long-term management of used nuclear fuel in the above-ground and geological repositories. Introduced is the impact of high-assay low enrichment uranium fuel in the advancement of nuclear reactors in global efforts to curb carbon emissions"--
