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fundamental of nuclear engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering the material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering it includes a broad range of important areas in the nuclear engineering field nuclear and atomic theory nuclear reactor physics design control dynamics safety and thermal hydraulics nuclear fuel engineering and health physics radiation protection it also includes the latest information that is missing in traditional texts such as space radiation the aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering

this book captures the principles of safety evaluation as practiced in the regulated light water reactor nuclear industry as established and stabilized over the last 30 years it is expected to serve both the current industry and those planning for the future the work s coverage of the subject matter is the broadest to date including not only the common topics of modeling and simulation but also methods supporting the basis for the underlying assumptions the extension to radiological safety what to expect in a licensing review historical perspectives and the implication for new designs this text is an essential resource for practitioners and students on the current best practices in nuclear power plant safety and their basis contributors of this work are subject matter experts in their specialties much of which was nurtured and inspired by prof larry hochreiter a prominent nuclear safety pioneer related link s

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nuclear thermal hydraulic systems provides a comprehensive approach to nuclear reactor thermal hydraulics reflecting the latest technologies reactor designs and safety considerations the text makes extensive use of color images internet links computer graphics and other innovative techniques to explore nuclear power plant design and operation key fluid mechanics heat transfer and nuclear engineering concepts are carefully explained and supported with worked examples tables and graphics intended for use in one or two semester courses the text is suitable for both undergraduate and graduate students a complete solutions manual is available for professors adopting the text

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