



The Technology of Nuclear Reactor Safety, Vol. 2: Reactor Materials and Engineering

N. J. Palladino, S. Levy, H. Fenech, G. W. Parker, L. Silverman, W. A. Rodger, T. J. Thomson, L. Baker Jr.

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Publication of this book completes a project begun with the first volume, *Reactor Physics and Control*.

These books are the product of Project SIFTOR (Safety Information for the Technology of Reactors), a coordinated effort sponsored by the U.S. Atomic Energy Commission to evaluate critically, organize, and generalize the growing body of information concerned with safety problems in reactor design and operation. Many leading authorities have contributed to this project, and their studies range in treatment from normal, day-to-day operation to catastrophic accidents. The history of specific accidents is reviewed, as is that of destructive tests ("intentional accidents"). The results of numerous theoretical and experimental studies of reactor excursions ("run-aways") are synthesized by mathematical models. The problems of containing or confining the energy and radioactive debris that would be released by a serious accident at a reactor installation are considered in detail, as are the safety problems associated with non-nuclear phases of reactor design: mechanical components, chemical reactions, fluid flow, and heat transfer.

Contents: "Materials and Metallurgy," Thomas O. Ziebold; "Fuel Elements," D. Gurinsky and S. Isserow; "Mechanical Design of Components for Reactor Systems," N. J. Palladino; "Fluid Flow," S. Levy; "Heat Transfer," W. Rohsenow and H. Fenech; "Chemical Reactions," L. Baker; "Fission Product Release," G. W. Parker and C. J. Barton; "Fission Product Behavior and Retention in Containment Systems," L. Silverman; "Radioactive Waste Management," W. Rodger and S. McLain; "The Concepts of Reactor Containment," T. J. Thompson; and "Containment and Confinement Structures," T. J. Thompson.

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