



Optimal Control of Distributed Nuclear Reactors (Mathematical Concepts and Methods in Science and Engineering)

G.S. Christensen, S.A. Soliman, R. Nieva

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This book is devoted to the mathematical optimization theory and modeling techniques that recently have been applied to the problem of controlling the shape and intensity of the power density distribution in the core of large nuclear reactors. The book has been prepared with the following purposes in mind: 1. To provide, in a condensed manner, the background preparation on reactor kinetics required for a comprehensive description of the main problems encountered in designing spatial control systems for nuclear reactor cores. 2. To present the work that has already been done on this subject and provide the basic mathematical tools required for a full understanding of the different methods proposed in the literature. 3. To stimulate further work in this challenging area by weighting the advantages and disadvantages of the existing techniques and evaluating their effectiveness and applicability. In addition to coverage of the standard topics on the subject of optimal control for distributed parametersystems, the book includes, at a mathematical level suitable for graduate students in engineering, discussions of concepts of functional analysis, the representation theory of groups, and integral equations. Although these topics constitute a requisite for a full understanding of the new developments in the area of reactor modeling and control, they are seldom treated together in a single book and, when they are, their presentation is often directed to the mathematician. They are thus relatively unknown to the engineering community.

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