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Optimal Control of Distributed Nuclear Reactors

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Springer Science+Business Media, LLC

Optimal Control Of Distributed Nuclear Reactors

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Optimal Control Of Distributed Nuclear Reactors:

Optimal Control of Distributed Nuclear Reactors G.S. Christensen, S.A. Soliman, R. Nieva, 2013-11-11 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

Optimal Control of Nuclear Reactors Ronald R. Mohler, Chi-neng Shen, 1970 *Optimal Control of Distributed Nuclear Reactors Using Functional Analysis* Rolando Nieva Gómez, 1979 The minimum norm formalism of functional analysis is applied to the problem of controlling the neutron flux distribution in nuclear reactors The application of the optimization technique is first described in terms of a general linear distributed parameter model The general results thus obtained are later particularized to the specific case of a homogeneous slab reactor with the one energy neutronic model The reduction of distributed parameter systems into decoupled and more tractable subsystems is discussed It is demonstrated how symmetry principles can facilitate the practical implementation of the optimization techniques to more realistic distributed models which may include for example reactor configurations in two or three dimensions A new model expansion method is developed for solving the system of partial differential equations that describe the transient behavior of the most important fission product concentrations in thermal nuclear reactors

OPTIMAL CONTROL OF DISTRIBUTED PARAMETER NUCLEAR POWER REACTORS. Adel Abdel-Hamid El-Bassioni, 1969 **Power Reactor Technology and Reactor Fuel Processing**, 1967 **Optimal Control of Nuclear Reactor Processes** Ronald R. Mohler, 1965 Reactor and Fuel-processing Technology, 1967 *Scientific and Technical Aerospace Reports*, 1969 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Optimal Control Theory for Xenon Spatial Oscillations in Load Follow of a Nuclear Reactor Nam Zin Cho, 1980

Optimal Control of Nonlinear Nuclear Reactors ,1987 This paper presents a new formulation of a class of nonlinear optimal control problems as a solution of a system of differential equations with initial conditions An application to the control of a nonlinear nuclear reactor is shown 3 refs 1 fig **Automatic Control Theory & Applications** ,1978

Control Abstracts ,1967 Comprehensive Dissertation Index, 1861-1972: Engineering: general and aeronautical Xerox University Microfilms,1973 **Optimal Control of Distributed Networked Energy Storage for Improved Small-Signal Stability** ,2015 Mathematical Reviews ,2001 *Mathematics of the USSR.* ,1978 *Observers and Canonical Augmentation in Stabilization Methods for a Class of Linear Hyperbolic Systems* Handayani Tjandrasa,1984 Mathematics of the USSR: Izvestija ,1977 **Comprehensive Dissertation Index, 1861-1972: Engineering: civil, electrical, and industrial** Xerox University Microfilms,1973 **Systems Analysis and Simulation 1985: Theory and foundations** Achim Sydow,Manfred Thoma,Robert Vichnevetsky,1985

Adopting the Song of Expression: An Psychological Symphony within **Optimal Control Of Distributed Nuclear Reactors**

In some sort of used by monitors and the ceaseless chatter of quick interaction, the melodic splendor and emotional symphony produced by the written word usually fade into the backdrop, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, located within the pages of **Optimal Control Of Distributed Nuclear Reactors** a charming fictional treasure overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that captivating masterpiece conducts visitors on an emotional trip, well unraveling the hidden tunes and profound influence resonating within each cautiously crafted phrase. Within the depths of the moving review, we will examine the book is main harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Optimal Control Of Distributed Nuclear Reactors Introduction

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