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# Optimal Control of Distributed Nuclear Reactors

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# Optimal Control Of Distributed Nuclear Reactors

**Handayani Tjandrasa**



## **Optimal Control Of Distributed Nuclear Reactors:**

Optimal Control of Distributed Nuclear Reactors G.S. Christensen, S.A. Soliman, R. Nieva, 1990-01-31 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 Nuclear Reactors Ronald R. Mohler, Chi-neng Shen, 1970 Reactor and Fuel-processing Technology, 1967

*Power Reactor Technology and Reactor Fuel Processing*, 1967 *OPTIMAL CONTROL OF DISTRIBUTED PARAMETER NUCLEAR POWER REACTORS*. Adel Abdel-Hamid El-Bassioni, 1969 **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 *Automatic*

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Class of Linear Hyperbolic Systems Handayani Tjandrasa,1984      **Systems Analysis and Simulation 1985** Achim  
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## The Enigmatic Realm of **Optimal Control Of Distributed Nuclear Reactors**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Optimal Control Of Distributed Nuclear Reactors** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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### **Optimal Control Of Distributed Nuclear Reactors Introduction**

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