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MYB Misexpression Links the Spatial Control of Lignification with Photomorphogenesis Mar 10 2022

Comparative Research of Spatial Control in Urban Detailed Planning in China and Germany Jun 13 2022

[Spatial Control of Surface Chemistry for Cell Attachment and Spreading in the Development of Tissue Engineering Devices](#) Nov 13 2019

Identification and Characterization of a Negative Regulator Required for Spatial Control of the Territory-specific Cylla Gene in the Sea Urchin Embryo Jul 22 2020

Optimal Spatial Control of Pressurized Water Nuclear Reactors Jun 20 2020

Implementation of an Expert System for Xenon Spatial Control in Pressurized Water Reactors Sep 23 2020

A Taxonomy of Mechanisms of Spatial Control Nov 18 2022

Temporal and Spatial Control During Caulobacter Cell Differentiation Apr 18 2020

Temporal and Spatial Control of the Caulobacter Cell Cycle Feb 26 2021

Spatial Control of Protrusive Activity and Cell Shape by Microtubules Apr 11 2022

The Spatial Control of Particles in Microfluidic Systems Using Surface Acoustic Waves Sep 16 2022

[The Spatial Control of Rap1 and Epac Proteins](#) Oct 17 2022

[Spatial Control of Crop Inputs Via Laptop and Typical Field Travel](#) Nov 25 2020

Spatial Control of Light in Nonlinear and Periodic Photonic Structures Aug 03 2021

[Nanoscale Spatial Control and Application of Poly\(catecholamines\)](#) Jun 01 2021

Spatial Control of Vibration Aug 15 2022

Vibration is a natural phenomenon that occurs in a variety of engineering systems. In many circumstances, vibration greatly affects the nature of engineering design as it often dictates limiting factors in the performance of the system. The conventional treatment is to redesign the system or to use passive damping. The former could be a costly exercise, while the latter is only effective at higher frequencies. Active control techniques have emerged as viable technologies to fill this low-frequency gap. This book is concerned with the study of feedback controllers for vibration control of flexible structures, with a view to minimizing vibration over the entire body of the structure. The book introduces a variety of flexible structures such as beams, strings, and

plates with specific boundary conditions, and explains in detail how a spatially distributed model of such systems can be obtained. It addresses the problems of model reduction and model correction for spatially distributed systems of high orders, and goes on to extend robust control techniques such as H-infinity and H² control design methodologies to spatially distributed systems arising in active vibration control problems. It also addresses other important topics, such as actuator and sensor placement for flexible systems, and system identification for flexible structures with irregular boundary conditions. The text contains numerous examples, and experimental results obtained from laboratory-level apparatus, with details of how similar test beds may be built. Contents: Modeling; Spatial Norms and Model Reduction; Model Correction; Spatial Control; Optimal Placement of Actuators and Sensors; System Identification for Spatially Distributed Systems. Readership: Graduate students and researchers in mechanical engineering and control theory.

Temporal and Spatial Control of Ambient Ozone Oct 05 2021

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Spatial Control of Vibration Apr 30 2021 Vibration is a natural phenomenon that occurs in a variety of engineering systems. In many circumstances, vibration greatly affects the nature of engineering design as it often dictates limiting factors in the performance of the system. The conventional treatment is to redesign the system or to use passive damping. The former could be a costly exercise, while the latter is only effective at higher frequencies. Active control techniques have emerged as viable technologies to fill this low-frequency gap. This book is concerned with the study of feedback controllers for vibration control of flexible structures, with a view to minimizing vibration over the entire body of the structure. The book introduces a variety of flexible structures such as beams, strings, and plates with specific boundary conditions, and explains in detail how a spatially distributed model of such systems can be obtained. It addresses the problems of model reduction and model correction for spatially distributed systems of high orders, and goes on to extend robust control techniques such as H-infinity and H² control design methodologies to spatially distributed systems arising in active vibration control problems. It also addresses other important topics, such as actuator and sensor placement for flexible systems, and system identification for flexible structures with irregular boundary conditions. The text contains numerous examples, and experimental results obtained from laboratory-level apparatus, with details of how similar test beds may be built.

Methods for optimal spatial control of pressurized water reactors Oct 25 2020

Spatial Orientation Jan 20 2023 This major study of animal orientation in space launches the Princeton Series in Neurobiology and Behavior. Bringing together for the first time the important work done on spatial orientation over the past twenty-five years, and reviewing research up to and including recent attempts to apply the methods of cybernetics, Hermann Schone discusses the most significant concepts in the control of position and movement in space. Originally published in 1984. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These paperback editions preserve the original texts of these important books while presenting them in durable paperback editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

A numerical approach to transfer function synthesis for reactor spatial control studies Jan 16 2020

Spatial Control of Kinetics and Droplet Dynamics Via Microfluidics and Modeling Jan 08 2022 In this dissertation we show how spatial distribution can be used to control initiation and rate of biological, chemical, and physical processes. Spatial distribution of diffusible activators is predicted to have a significant effect on the dynamics of biological and chemical systems that have nonlinear kinetics. Systems with threshold kinetics should respond to spatial distribution in a binary (ON/OFF) manner. This prediction was tested first for the complex biological system of blood coagulation, using microfluidic experiments and numerical simulations. It was shown that slow mixing, confinement, or clustering of activators were all sufficient to turn the coagulation cascade 'ON' and to control the timing of initiation. Next, microfluidics was used to control mixing and phase separation in a droplet-based system to measure the kinetics of liquid-liquid extraction of rare earth metals. It was shown that rapid mixing and rapid, pure isolation of the aqueous phase by spatial separation of phases was sufficient to allow measurement of device-independent rate constants of interfacial mass transfer, by keeping the extraction process 'ON' until the moment of phase separation, which then turns it 'OFF.' Finally, a microfluidic diagnostics platform called the SlipChip was used to provide geometric constraints on capillary pressure in nonwetting aqueous droplets. It was shown that spatial control of capillary pressure was sufficient to control both the rate and the initiation of spontaneous droplet flow. In each of these systems, microfluidic control of the spatial distribution of biochemical activators, fluids, or pressures was able to alter the outcome and the rate of the process of interest. We predict that this finding is general to any system that is controlled by a threshold, and should be explored in the context of complex biological systems such as the immune response or neurodegeneration.

Spatial Control of Inner Ear Neurogenesis by Retinoid Acid, Tbx1 and Her Genes May 20 2020

An In Vitro Investigation of the Spatial Control Involved in Collagen Mineralization Jul 14 2022

The Compositional and Spatial Control of Self-assembled Monolayers Jan 28 2021

Disciplinary Spaces Dec 19 2022 This volume looks at territories such as reservations, model villages and collective towns as the spatial materialization of forced assimilation and "progress". These disciplinary spaces were created in

order to disempower and alter radically the behavior of people who were perceived as ill-suited "to fit" into hegemonic imaginations of "the nation" since the 19th century. Comparing examples from the Americas, Australia, North and East Africa, Central Europe as well as West and Central Asia, the book not only considers the acts and legitimizing narrations of ruling actors, but highlights the agency of the subaltern who are often misrepresented as passive victims of violent assimilation strategies.

Methods for Spatial Control of Pore Size and Microstructure in Porous Carbons Mar 30 2021

Distributed Spatial Control, Global Monitoring and Steering of Mobile Agents (Preprint). Nov 06 2021 In this paper, we combine two frameworks in the context of an important application. The first framework, called "artificial physics," is described in detail in a companion paper by Spears and Gordon. The purpose of artificial physics is the distributed spatial control of large collections of mobile physical agents. The agents can be composed into geometric patterns (e.g., to act as a sensing grid) by having them sense and respond to local artificial forces that are motivated by natural physics laws. The purpose of the second framework is global monitoring of the agent formations developed with artificial physics. Using only limited global information, the monitor checks that the desired geometric pattern emerges over time as expected. If there is a problem, the global monitor steers the agents to self-repair. Our combined approach of local control through artificial physics, global monitoring, and "steering" for self-repair is implemented and tested on a problem where multiple agents form a hexagonal lattice pattern.

Investigation of Spatial Control Strategies with Application to Advanced Heavy Water Reactor May 12 2022 This book examines the different spatial control techniques for regulation of spatial power distribution in advanced heavy water reactors (AHWR). It begins with a review of the literature pertinent to the modeling and control of large reactors. It also offers a nodal-core model based on finite difference approximation since the AHWR core is considered to be divided into 17 relatively large nodes. Further, it introduces a nonlinear model characterizing important thermal hydraulics parameters of AHWR and integrates it into the neutronics model to obtain a coupled neutronics-thermal hydraulics model of AHWR. The book also presents a vectorized nonlinear model of AHWR and implements it in MATLAB/Simulink environment. The model of the reactor is then linearized at the rated power and put into standard state variable form. It is characterized by 90 states, 5 inputs and 18 outputs. Lastly, it discusses control techniques for a nonlinear model of AHWR. This book will prove to be a valuable resource for professional engineers and implementation specialists, researchers and students.

Theorising the Shopping Mall Jul 02 2021

The Power of Space Feb 09 2022

Spatial Control of mRNA Stability in Yeast Aug 23 2020

Spatial Control of the Orbit of the Elcetron in a Rydberg H-atom by Autoresonant Synchronization Dec 07 2021

Medium-sized Ring Compounds and Spatial Control of Basicity Feb 15 2020

Spatial Control of Transcription in Flowers of Antirrhinum Majus Dec 15 2019

HydroCrowd: a Citizen Science Snapshot to Assess the Spatial Control of Nitrogen Solutes in Surface Waters Sep 04 2021

Optimal Spatial Control of Pressurized Water Nuclear Reactions Dec 27 2020

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