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The authors use a linear graph approach which contrasts with the bond graph approach or the no graph approach

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Covers lumped network models of systems and their behavior, equivalence and superposition in linear networks, frequency response models, and coupling devices

The book blends readability and

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accessibility common to undergraduate control systems texts with the mathematical rigor necessary to form a solid theoretical foundation. Appendices cover linear algebra and provide a Matlab overview and files. The reviewers pointed out that this is an ambitious project but one that will

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pay off because of the lack of good up-to-date textbooks in the area.

Cities have always played a prominent role in the prosperity of civilization. Indeed, every great civilization we can think of is associated with the prominence of one or more thriving

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cities. And so understanding cities -- their inhabitants, their institutions, their infrastructure -- what they are and how they work independently and together -- is of fundamental importance to our collective growth as a human civilization. Furthermore, the 21st century “ smart ” city, as a

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Result of global climate change and large-scale urbanization, will emerge as a societal grand challenge. This book focuses on the role of interdependent infrastructure systems in such smart cities especially as it relates to timely and poignant questions about resilience and sustainability. In

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particular, the goal of this book is to present, in one volume, a consistent Hetero-Functional Graph Theoretic (HFGT) treatment of interdependent smart city infrastructures as an overarching application domain of engineering systems. This work may be contrasted to the growing

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literature on multi-layer networks, which despite significant theoretical advances in recent years, has modeling limitations that prevent their real-world application to interdependent smart city infrastructures of arbitrary topology. In contrast, this book demonstrates

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that HFGT can be applied extensively to an arbitrary number of arbitrarily connected topologies of interdependent smart city infrastructures. It also integrates, for the first time, all six matrices of HFGT in a single system adjacency matrix. The book makes every effort to be

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accessible to a broad audience of infrastructure system practitioners and researchers (e.g. electric power system planners, transportation engineers, and hydrologists, etc.). Consequently, the book has extensively visualized the graph theoretic concepts for greater

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intuition and clarity. Nevertheless, the book does require a common methodological base of its readers and directs itself to the Model-Based Systems Engineering (MBSE) community and the Network Science Community (NSC). To the MBSE community, we hope that HFGT will

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Be accepted as a quantification of many of the structural concepts found in model-based systems engineering languages like SysML. To the NSC, we hope to present a new view as how to construct graphs with fundamentally different meaning and insight. Finally, it is our hope that HFGT serves to

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Rowell Darsh Wornley
overcome many of the theoretical and modeling limitations that have hindered our ability to systematically understand the structure and function of smart cities.

Comprehensive in scope and readable, this book explores the methods used

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by engineers to analyze and predict the mechanical behavior of materials. Author Norman E. Dowling provides thorough coverage of materials testing and practical methods for forecasting the strength and life of mechanical parts and structural members.

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This book covers the broad spectrum of system dynamics methodologies for the modelling and simulation of complex systems: systems thinking, causal diagrams, systems structure of stock and flow diagrams, parameter estimation and tests for confidence

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building in system dynamics models. It includes a comprehensive review of model validation and policy design and provides a practical presentation of system dynamics modelling. It also offers numerous worked-out examples and case studies in diverse fields using STELLA and VENSIM. The

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Research methodologies presented here can be applied to nearly all areas of research and planning, and the simulations provided make the complicated issues more easily understandable. System Dynamics: Modelling and Simulation is an essential system dynamics and

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Systems engineering textbook for undergraduate and graduate courses. It also offers an excellent reference guide for managers in industry and policy planners who wish to use modelling and simulation to manage complex systems more effectively, as well as researchers in the fields of

Read Free System Dynamics Introduction Modelling and simulation-based systems thinking.

This book includes representative research from the state of the art in the emerging field of soft robotics, with a special focus on bioinspired soft robotics for underwater

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applications. Topics include novel materials, sensors, actuators, and system design for distributed estimation and control of soft robotic appendages inspired by the octopus and seastar. It summarizes the latest findings in an emerging field of bioinspired soft robotics for the

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underwater domain, primarily drawing from (but not limited to) an ongoing research program in bioinspired autonomous systems sponsored by the Office of Naval Research. The program has stimulated cross disciplinary research in biology, material science,

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computational mechanics, and systems and control for the purpose of creating novel robotic appendages for maritime applications. The book collects recent results in this area.

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In Simon Gikandi's view, Caribbean literature and postcolonial literature more generally negotiate an uneasy relationship with the concepts of modernism and modernity—a relationship in which the Caribbean writer, unable to escape a history encoded by Europe, accepts the

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challenge of rewriting it. Drawing on contemporary deconstructionist theory, Gikandi looks at how such Caribbean writers as George Lamming, Samuel Selvon, Alejo Carpentier, C. L. R. James, Paule Marshall, Merle Hodge, Zee Edgell, and Michelle Cliff have attempted to

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