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# Modeling and Visualization of Complex Systems and Enterprises: Explorations of Physical, Human, Economic, and Social Phenomena (Stevens Institute Series on Complex Systems and Enterprises)

*William B. Rouse*

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**Stevens Institute Series on  
Complex Systems and Enterprises**

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## MODELING AND VISUALIZATION OF COMPLEX SYSTEMS AND ENTERPRISES

Explorations of Physical, Human, Economic,  
and Social Phenomena

**William B. Rouse**



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Explains multi-level models of enterprise systems and covers modeling methodology This book addresses the essential phenomena underlying the overall behaviors of complex systems and enterprises. Understanding these phenomena can enable improving these systems. These phenomena range from physical, behavioral, and organizational, to economic and social, all of which involve significant human components. Specific phenomena of interest and how they are represented depend on the questions of interest and the relevant domains or contexts. Modeling and Visualization of Complex Systems and Enterprises examines visualization of phenomena and how understanding the relationships among phenomena can provide the basis for understanding where deeper exploration is warranted. The author also reviews mathematical and computational models, defined very broadly across disciplines, which can enable deeper understanding. Presents a 10 step methodology for addressing questions associated with the design or operation of complex systems and enterprises

"The book is written for graduate students studying systems science and engineering and professionals involved in systems science and engineering, those involved in complex systems such as healthcare delivery, urban systems, sustainable energy, financial systems, and national security." (Zentralblatt MATH 2016) The book is written for graduate students studying systems science and engineering and pro-