



## Model-oriented Systems Engineering Science: A Unifying Framework for Traditional and Complex Systems (Hardback)

By Duane W. Hybertson

Taylor Francis Ltd, United Kingdom, 2009. Hardback. Condition: New. Language: English . Brand New Book. Systems engineering (SE) is experiencing a significant expansion that encompasses increasingly complex systems. However, a common body of knowledge on how to apply complex systems engineering (CSE) has yet to be developed. A combination of people and other autonomous agents, crossing organization boundaries and continually changing, these hybrid systems are less predictable while being more self-organizing and adaptive than traditional systems. The growing pains of this evolution and the ever-widening reach of SE technology require an effective foundation for integrating traditional and complex engineering methods, addressing machine and human interaction, as well as scaling up and down, from nano scale to the macro system-of-systems level. Model-oriented Systems Engineering Science: A Unifying Framework for Traditional and Complex Systems addresses solutions to that expansion and integration problem. This text takes advantage of better-understood systems science (SS) to support the transition, identifying and using commonalities between complex systems and other sciences, such as biology, sociology, cognitive science, organizational theory, and computational science. The author defines Model-oriented Systems Engineering Science (MOSES), an organized system that selects appropriate information from these disciplines and unifies it into a coherent framework. The...



**READ ONLINE**  
[ 6.79 MB ]

### Reviews

*Extensive information! Its this sort of great read through. It is amongst the most incredible book i have go through. I realized this publication from my i and dad suggested this book to understand.*

-- Prof. Devon Bernhard PhD

*This composed pdf is excellent. We have go through and that i am certain that i am going to likely to read again once more down the road. I am just happy to explain how this is basically the very best publication i have go through within my own daily life and can be he best publication for actually.*

-- Anika Kertzmann