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Titolo	Computer Modeling and Simulation of Dynamic Systems Using Wolfram SystemModeler [[electronic resource] /] / by Kirill Rozhdestvensky, Vladimir Ryzhov, Tatiana Fedorova, Kirill Safronov, Nikita Tryaskin, Shaharin Anwar Sulaiman, Mark Ovinis, Suhaimi Hassan
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Nota di contenuto	Foreword -- Chapter 1. Basic concepts of modeling -- Chapter 2. Wolfram SystemModeler environment description -- Chapter 3. Computer simulation of dynamic systems -- Chapter 4. Modeling of mechanical oscillatory systems with one degree of freedom. Examples -- Chapter 5. Modeling of mechanical oscillatory systems with several degrees of freedom. Examples -- Chapter 6. Hierarchical component models. Examples.
Sommario/riassunto	This book briefly discusses the main provisions of the theory of modeling. It also describes in detail the methodology for constructing computer models of dynamic systems using the Wolfram visual modeling environment, SystemModeler, and provides illustrative examples of solving problems of mechanics and hydraulics. Intended for students and professionals in the field, the book also serves as a supplement to university courses in modeling and simulation of

dynamic systems.
