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Modeling And Simulation In Science And Mathematics Education

Gloria Ann Stillman, Jill P. Brown



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Modeling and Simulation in Science and Mathematics Education W. Feurzeig, Nancy Roberts, 1999 This book aimed at precollege teachers shows how the role of simulation modeling in investigation dynamic processes is now extending beyond research and university environments to the precollege world Computer modeling has the potential to significantly improve the quality of secondary science and mathematics education This book introduces teachers and students to many different perspectives of and approaches to scientific inquiry Each of the chapters and associated software applications integrates mathematics science and technology in an authentic manner The contributors discuss the issues raised by classroom based modeling projects and provide most of the software applications described BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

Modeling and Simulation in Science and Mathematics Education Wallace Feurzeig, Nancy Roberts, 2014-01-15 [Modeling and Simulation in Science and Mathematics Education](#) Wallace Feurzeig, Nancy Roberts, 2012-12-06 The world consists of many complex systems ranging from our own bodies to ecosystems to economic systems Despite their diversity complex systems have many structural and functional features in common that can be effectively simulated using powerful user friendly software As a result virtually anyone can explore the nature of complex systems and their dynamical behavior under a range of assumptions and conditions This ability to model dynamic systems is already having a powerful influence on teaching and studying complexity The books in this series will promote this revolution in systems thinking by integrating skills of numeracy and techniques of dynamic modeling into a variety of disciplines The unifying theme across the series will be the power and simplicity of the model building process and all books are designed to engage the reader in developing their own models for exploration of the dynamics of systems that are of interest to them Modeling Dynamic Systems does not endorse any particular modeling paradigm or software Rather the volumes in the series will emphasize simplicity of learning expressive power and the speed of execution as priorities that will facilitate deeper system understanding [Model-Based Approaches to Learning](#), 2019-02-11 Model Based Approaches to Learning provides a new perspective called learning by system modeling This book explores the learning impact of students when constructing models of complex systems In this approach students are building their own models and engaging at a much deeper conceptual level of understanding of the content processes and problem solving of the domain which is proven to be successful by research from the area of mindtools Topics covered include the foundations of knowledge structures and mental model development modeling for understanding modeling for assessment individual versus collaborative modeling and the use of simulations to support learning and instruction in complex cognitive domains The thread tying these chapters together is an emphasis on what the learner is doing when he is engaged in modeling and simulation construction rather than merely interacting with constructed simulations Model Based Approaches to Learning is an interesting book for Educators Instructors K 12 Teachers who are

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