System Zoo 2 Simulation Models. Climate, Ecosystems, Resources

By Hartmut Bossel

BoD. Paperback. Book Condition: New. Paperback. 204 pages. Dimensions: 9.9in. x 6.9in. x 0.9in.Mathematical modeling and computer simulation make it possible to understand and control the dynamic processes taking place in complex systems. Simulation provides insights into the often surprising diversity of possible behaviors, and allows identifying possibilities for intervention and options for alternative development. About one hundred simulation models from all areas of life are fully documented in the three volumes of the System Zoo. They can be quickly implemented and easily operated using freely available system dynamics software. Volume 2 of the System Zoo contains simulation models of the regional water cycle and global carbon cycle, the photosynthesis of vegetation, forest growth, the water, nutrient, and energy dynamics of agriculture, the interaction of plants, animals, and humans with other organisms and resources by predation, harvesting, and competition for nutrients, and through utilization of renewable and exploitation of nonrenewable resources. The System Zoo collection of simulation models is particularly well-suited for teaching, training, and research projects at all levels from high school to university, and for individual study. Volume 1 of the System Zoo contains simulation models of elementary systems, and of systems from the fields of physics and...

READ ONLINE
[5.44 MB]

Reviews

An exceptional pdf and also the typeface applied was intriguing to read through. It is definitely simplified but excitement in the 50 % in the ebook. I discovered this ebook from my dad and i recommended this pdf to find out.
-- Jarod Ward

Complete information for publication enthusiasts. It is really basic but shocks inside the fifty percent of your book. I am just delighted to let you know that this is basically the finest book i have read through in my individual lifestyle and might be he best pdf for actually.
-- Elena Runolfsdottir Sr.