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The Modeling Process in Geography: From Determinism to Complexity; Table of Contents; Foreword. The Taste for Measuring and Modeling; Preface; Acknowledgements; Chapter 1. The Place of Both the Model and Modeling in HSS; 1.1. Models and modeling: definitions; 1.2. The mathematical concept of a model; 1.2.1. The semantic conception; 1.2.2. The empirical concept; 1.2.3. Links between the mathematical model and its object; 1.3. Is there a specificity of HSS?; 1.4. Modeling: explain to understand?; 1.5. Bibliography; Chapter 2. From Classic Models to Incremental Models  
2.1. The geographic "object"; 2.2. Lessons from the "classic models"; 2.3. Introduction to dynamics and auto-organization; 2.4. From auto-organization to complexity; 2.5. Spatial agents; 2.6. Incremental modeling; 2.7. Bibliography; Chapter 3. The Formalization of Knowledge in a Reality Simplifying System; 3.1. Formalizing a complex cultural system using a series of perspectives; 3.1.1. An initial perspective on culture and the city: the French example; 3.1.2. A simplification of the cultural system in place in France that is transposable to other countries; 3.1.3. Culture: possible measures  
3.1.4. Culture in a centralized state: a French diagnostic turned towards the elaboration of a transposable investigation protocol  
3.1.5. The necessary re-formulation of knowledge to overcome the successive and qualitative steps of advancement; 3.2. Differentiation of the system of cities by culture: contribution of the spatial analysis for testing the "global cultural model"; 3.2.1. A methodological investigation to define the cultural potential of British and French cities and their competitive capacity  
3.2.2. A comparative intra-urban study of two cities: similar disparities at the heart of the urban areas of Rouen and Brighton  
3.2.3. Alternative formalizations; 3.3.1. Measuring urban cultural potential; 3.3.2. A way to better define the global operation of the cultural system; 3.4. Conclusion; 3.5. Bibliography; Chapter 4. Modeling and Territorial Forecasting: Issues at Stake in the Modeling of Reunion's Spatial System; 4.1. Introduction; 4.2. A few major theoretical breakthroughs for modeling spatial complexity; 4.3. Modeling and territorial forecasting of the socio-spatial system of Reunion  
4.3.1. Spatial complexity and social urgency in Reunion or future deviations  
4.3.2. The trend scenarios or the probable future; 4.3.3. Catastrophic scenarios/unacceptable futures; 4.3.4. Reformist scenarios/desirable futures; 4.4. Modeling of Reunion's socio-spatial system; 4.4.1. Graphic modeling of Reunion's complexity; 4.5. Towards a modeling of the dynamics of Reunion's system; 4.6. Conclusion; 4.7. Bibliography; Chapter 5. One Model May Conceal Another: Models of Health Geographies; 5.1. Modeling in order to surpass descriptions?; 5.2. Mode of the models and models in vogue  
5.2.1. Modeling of healthcare provision

This title focuses on the evolution of the modeling process and on new research perspectives in theoretical and applied geography, as well as spatial planning. In the last 50 years, the achievements of spatial analysis models opened the way to a new understanding of the relationship between society and geographical space. In this book, these models are confronted by the real conditions of territorial prospect, regional dynamism, cultural policy, HMO, and spatial segregation. This confrontation takes into account the instability of social behavior and the permanence of partial determinist traje