



Environmental Modelling: An Uncertain Future?

By Beven, Keith

CRC Press, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface 1. How to make predictions 1.1 The purpose of this book 1.2 The aims of environmental modelling 1.3 Seven reasons not to use uncertainty analysis 1.4 The nature of the modelling process 1.4.1 From perceptual to procedural models 1.4.2 Parameters, variables and boundary conditions 1.5 The scale problem and the concept of incommensurability 1.6 The Model Space 1.7 Ensembles of models 1.8 Modelling for formulating understanding 1.9 Modelling for practical applications 1.9.1 Simulation with no historical data available 1.9.2 Simulation with historical data available 1.9.3 Forecasting the near future 1.10 Guidelines for Effective Modelling 1.11 The Meanings of Uncertainty 1.12 Deciding on an uncertainty estimation method 1.13 Uncertainty in model predictions and decision making 1.14 A Review of Chapter 1 2.A Philosophical Diversion 2.1 Why worry about philosophy? 2.2 Pragmatic realism 2.3 Other philosophical concepts of realism 2.4 Models as instrumentalist tools 2.5 The model validation issue 2.6 The model falsification issue 2.7 The model confirmation issue: Bayesian approaches 2.8 The information content of observations as evidence for the confirmation of models 2.9 Explanatory depth and expecting the unexpected 2.10 Uncertainty, Ignorance,...



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