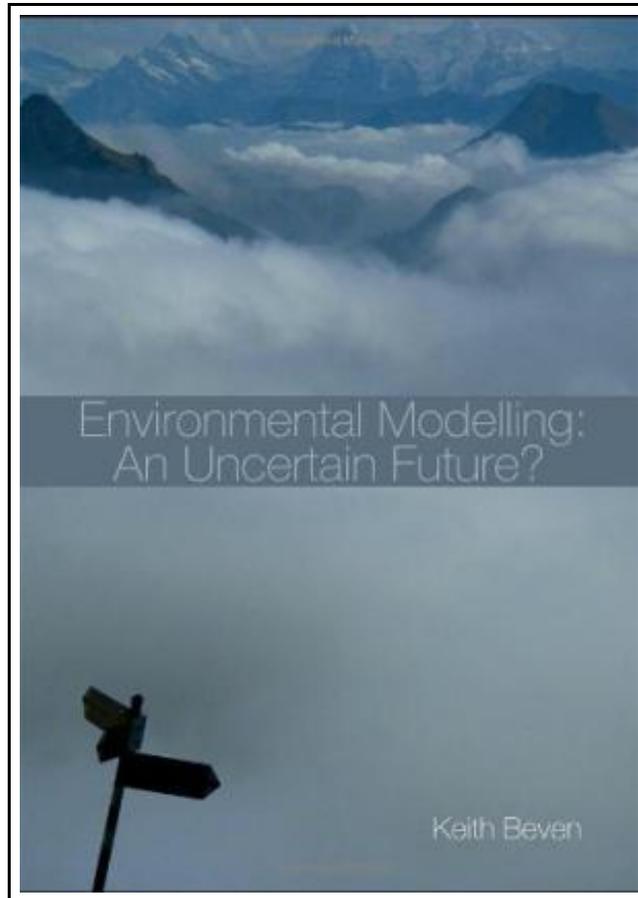


Environmental Modelling: An Uncertain Future?



Filesize: 4.76 MB

Reviews

A whole new eBook with an all new standpoint. It is actually rally fascinating throgh reading through time period. You wont truly feel monotony at anytime of your own time (that's what catalogues are for relating to when you request me).

(Claire Bartell)

ENVIRONMENTAL MODELLING: AN UNCERTAIN FUTURE?



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, and Factors of Safety 2.11 Review of Chapter 2 3. Simulation with No Historical Data Available 3.1 Sensitivity, Scenarios and Forward Uncertainty Analysis 3.2 Making decisions about prior information 3.2.1 Prior distributions of parameters 3.2.2 Belief Networks 3.3 Sampling the Model Space 3.3.1 Analytical propagation of probabilistic uncertainty 3.3.2 Discrete samples or Random Monte Carlo Search? 3.3.3 Pseudo-random numbers and the realisation effect 3.3.4 Guided Monte Carlo Search 3.3.5 Copula Sampling 3.3.6 Case Study: Copula Sampling in mapping groundwater quality 3.4 Fuzzy representations of uncertainty 3.4.1 Case Study: Forward Uncertainty Analysis using fuzzy variables 3.5 Sensitivity Analysis 3.5.1 Point sensitivity...



[Read Environmental Modelling: An Uncertain Future? Online](#)



[Download PDF Environmental Modelling: An Uncertain Future?](#)

Related eBooks



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

[Save Book »](#)



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

[Save Book »](#)



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

[Save Book »](#)



Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

[Save Book »](#)



The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.After six years as a private investigator, Stacey Alexander has the strangest day...

[Save Book »](#)