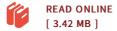


## Integrated Water Quality and Ecosystem Modelling

By Vélez, Carlos

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | a Case Study for Sonso Lagoon, Colombia | The pollution of water bodies with nutrients create a rich environment that encourages the growth of algae and invasive water plants such as the Water Hyacinth. The Water Hyacinth in its natural habitat does not represent a major problem, but out of its natural habitat, the water plant double its biomass in less than two weeks. The plants mesh form thick floating mats that rapidly cover the surface of the infested water body. This book presents the development of a Water Hyacinth Model. The model is based in a Demographic growth function and considers growth-limiting factors like nutrients, temperature, solar radiation, pH and biomass density. Three control strategies can be assessed: harvesting the plant, use bio control agents and chemical abatements. The model was developed in the Open Process Library of DELWAQ which facilitates the coupling online with the water quality and hydrodynamic model of Sobek. The book demonstrates the high potential of integration of water quality and ecosystem models in helping to understand the complex relationships between management actions and ecosystems responds. | Format: Paperback | Language/Sprache: english | 227 gr | 220x150x8...



## Reviews

It is simple in study easier to comprehend. It is one of the most awesome ebook i have read through. You wont truly feel monotony at at any moment of your respective time (that's what catalogs are for concerning in the event you question me). -- Clint Sporer

This publication is really gripping and exciting. It really is basic but unexpected situations in the 50 % in the book. It is extremely difficult to leave it before concluding, once you begin to read the book. -- Prof. Salvador Lynch