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Guide to Process Based Modeling of Lakes and Coastal Seas

By Anders Omstedt

Springer-Verlag GmbH Aug 2015, 2015. Buch. Condition: Neu. Neuware - This new edition of Guide to Process Based Modeling of Lakes and Coastal Seas brings the modeling up to date, taking into account multiple stressors acting on aquatic systems. The combination of acidification and increasing amounts of anoxic waters associated with eutrophication puts severe stress on the marine environment. The detection and attribution of anthropogenic changes in coastal seas are therefore crucial and transparent modeling tools are increasingly important. Modeling the marine CO₂-O₂ system makes systematic studies on climate change and eutrophication possible and is fundamental for understanding the Earth system. This second edition also includes new sections on detection and attribution and on modeling future changes, as well as improved exercises, updated software, and datasets. This unique book will stimulate students and researchers to develop their modeling skills and make model codes and data transparent to other research groups. It uses the general equation solver PROBE to introduce process-oriented numerical modeling and to build understanding of the subject step by step. The equation solver has been used in many applications, particularly in Sweden and Finland with their numerous lakes, archipelago seas, fjords, and coastal zones. It has also been...



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