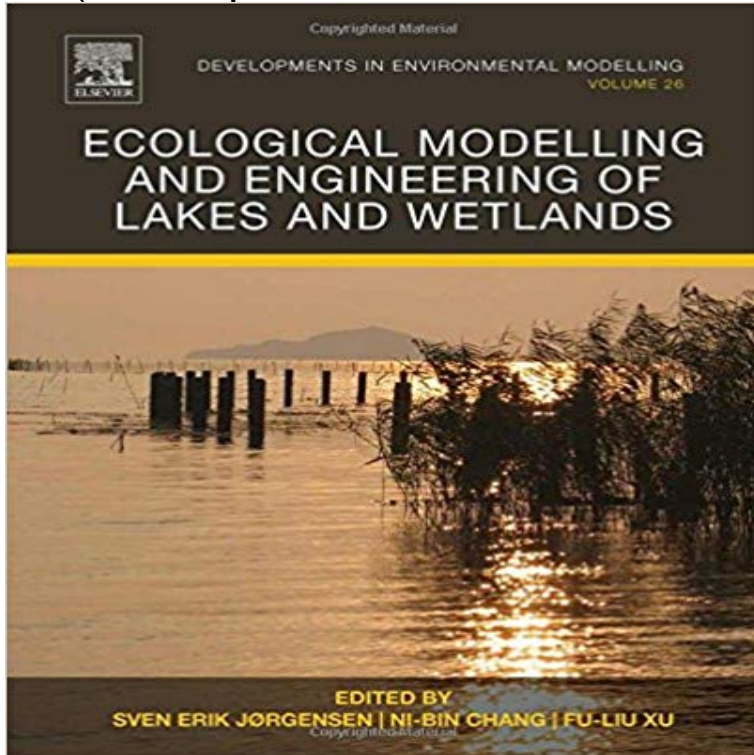


# Ecological Modelling and Engineering of Lakes and Wetlands, Volume 26 (Developments in Environmental Modelling)



Ecological modelling has developed rapidly in recent decades, with the focus primarily on the restoration of lakes and wetlands. Ecological Modelling and Engineering in Lakes and Wetlands presents the progress being made in modelling for a wealth of applications. It covers the older biogeochemical models still in use today, structurally dynamic models, 3D models, biophysical models, entire watershed models, and ecotoxicological models, as well as the expansion of modeling to the Arctic and Antarctic climate-zones. The book also addresses modelling the effect of climate change, including the development of ecological models for addressing storm water pond issues, which are increasingly important in urban regions where more concentrated rainfalls are a consequence of climate change. The ecological engineering topics covered in the book also emphasize the advancements being made in applying ecological engineering regimes for better environmental management of lakes and wetlands. Examines recent progress towards a better understanding of these two important ecosystems. Presents new results and approaches that can be used to develop better models. Discusses how to increase the synergistic effect between ecosystems engineering and modelling.

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