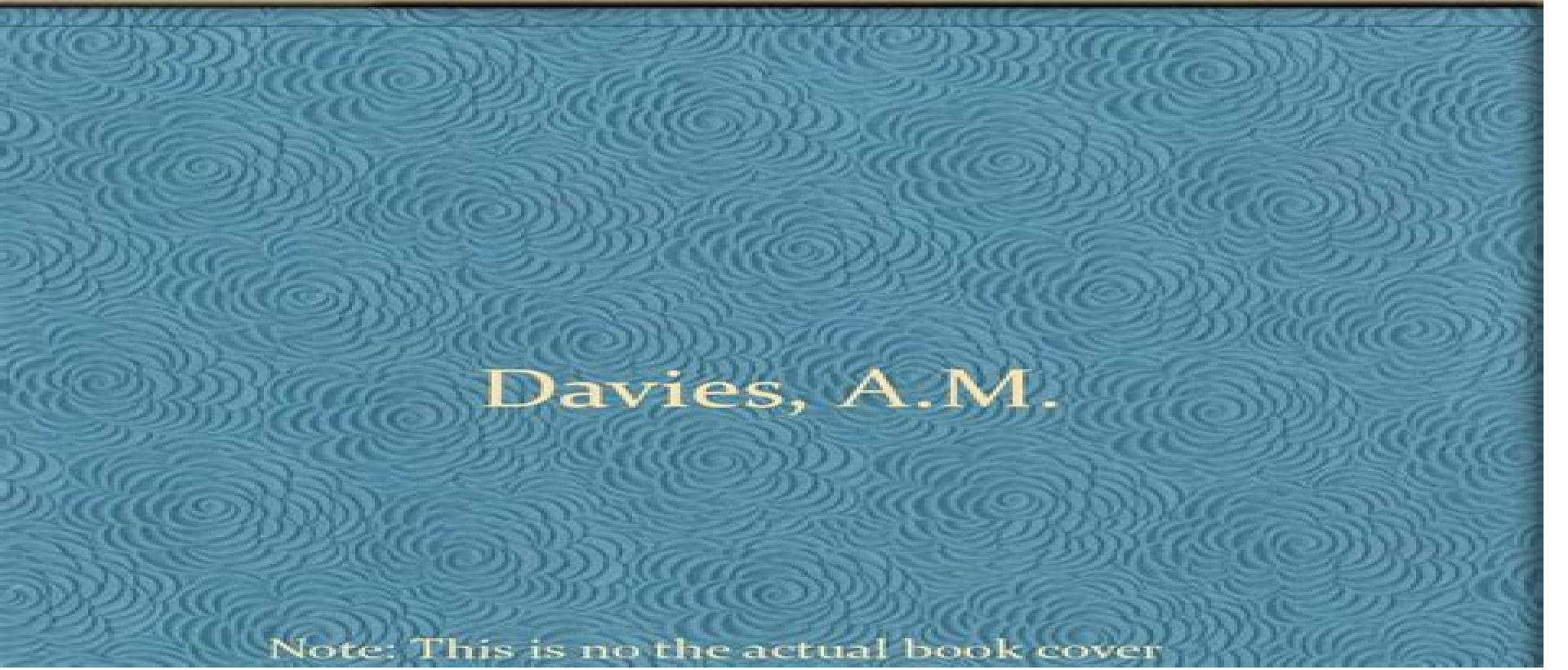


Modeling Marine System: v. 1 (Focus on Modeling Marine Systems)



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Modeling Marine Systems

Sebastian Sonntag

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lessons learnt from dynamic positioning incidents and accidents and discusses the challenges of risk assessment of complex systems. The book begins by introducing dynamic and online risk assessment before presenting automated and autonomous marine systems as well as numerous dynamic positioning incidents. It then discusses human interactions with technology and explores how to quantify human error. Dynamic probabilistic risk assessment and online risk assessment are both considered fully including case studies with the application of assisting operators in decision making in emergency situations. Finally areas for future research are suggested. This practical volume offers tools and methodologies to help operators make better decisions and improve the safety of automated and autonomous marine systems. It provides a guideline for researchers and practitioners to perform dynamic probabilistic and online risk assessment which also should be applicable to other complex systems outside the marine and maritime domain such as nuclear power plants, chemical processes, autonomous transport systems and space shuttles.

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