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Computational Modelling and Simulation of Aircraft and the Environment, Volume 1: Platform Kinematics and Synthetic Environment (Aerospace Series)

Dominic J. Diston

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Computational Modelling and Simulation of Aircraft and the Environment, Volume 1: Platform Kinematics and Synthetic Environment (Aerospace Series) Dominic J. Diston
This first volume of *Computational Modelling of Aircraft and the Environment* provides a comprehensive guide to the derivation of computational models from basic physical & mathematical principles, giving the reader sufficient information to be able to represent the basic architecture of the synthetic environment. Highly relevant to practitioners, it takes into account the multi-disciplinary nature of the aerospace environment and the integrated nature of the models needed to represent it. Coupled with the forthcoming *Volume 2: Aircraft Models and Flight Dynamics* it represents a complete reference to the modelling and simulation of aircraft and the environment.

All major principles with this book are demonstrated using MATLAB and the detailed mathematics is developed progressively and fully within the context of each individual topic area, thereby rendering the comprehensive body of material digestible as an introductory level text. The author has drawn from his experience as a modelling and simulation specialist with BAE SYSTEMS along with his more recent academic career to create a resource that will appeal to and benefit senior/graduate students and industry practitioners alike.

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