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Abstract: This book offers a comprehensive manuscript encompassing two separable texts on hydrodynamics

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and control of marine vehicles. In contrast to the aerospace industry, where dynamicists are often control experts as well, in the maritime world (due to the significant effect environmental loads have on the dynamics of the system) the more common pairing is dynamics with hydrodynamics.

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I Marine Craft Hydrodynamics. 1 Introduction 1.1 Classification of Models 1.2 The Classical Models in Naval Architecture 1.2.1 Maneuvering Theory 1.2.2 Seakeeping Theory 1.2.3 Unified Theory 1.3 Fossen's Robot-Like Vectorial Model for Marine Craft 2 Kinematics 2.1 Reference Frames 2.2 Transformations between BODY and NED 2.2.1 Euler Angle Transformation 2.2.2 Unit Quaternions 2.2.3 Quaternions from Euler Angles 2.2.4 Euler Angles from Quaternions 2.3 Transformations between ECEF and NED 2.3 ...

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Lecture Notes: TTK4190 Guidance and Control

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