# GUIDANCE NAVIGATION AND CONTROL ALGORITHMS FOR HIGH DYNAMICS VEHICLES



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(Kayley Lind)

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OMM PRESS, Madrid, 2017. Rustica (tapa blanda). Condition: Nuevo. Dust Jacket Condition: Nuevo. 1. Accuracy and precision are the cornerstone for ballistic projectiles from the earliest days of this discipline. In the beginnings, impact point precision in artillery devices deteriorated when range was extended, particularly for ballistic artillery rockets and shells, which are not propelled except during the launch. Later, inertial navigation and guidance systems were introduced and precision was unlinked from range increases. In the last thirty years, hybridization between inertial systems and GNSS devices has improved precision enormously. Unfortunately, during the last stages of flight, inertial and GNSS methods (hybridized or not) feature big errors in attitude and position determination. Low cost devices, which are precise on terminal guidance and do not feature accumulative error, such as quadrant photo-detector, seem to be appropriate to be included in the guidance systems. Hybrid algorithms, which combine GNSSs, IMUs and photo-detectors, are required to implement these novel techniques. The acceleration autopilot with a rate loop is the most commonly implemented autopilot, which has been extensively applied to highperformance missiles. Nevertheless, for high speed spinning rockets, the design of the guidance and control modules is a challenging task because the rapid spinning of the body creates a heavy coupling between the normal and lateral rocket dynamics. Hybridized measurements are implemented in modified proportional navigation law and a rotatory force control method. A realistic non-linear flight dynamics model, particularized for a high spinning ballistic rocket, has been developed to perform simulations to prove the accuracy of the presented algorithms. Professor Raúl de Celis has acquired professional experience in the field of system modeling during his performance at Altran in the area of Model Based Systems Engineering. He has also gained professional experience in the field of Navigation, Guidance and Control, of Autonomous Aerial...



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