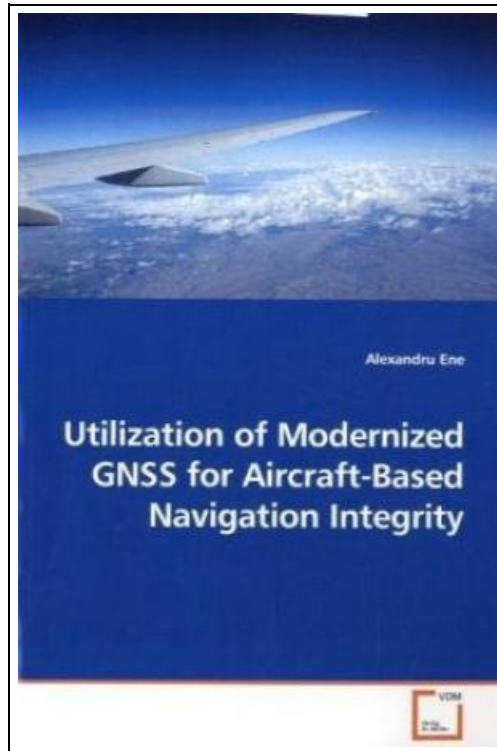


Utilization of Modernized GNSS for Aircraft-Based Navigation Integrity



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UTILIZATION OF MODERNIZED GNSS FOR AIRCRAFT-BASED NAVIGATION INTEGRITY



Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | An increased number of positioning constellations are expected to become operational over the next decade. Consequently, each user will be able to independently conduct an integrity check for their estimated position. Through the use of a Multiple Hypothesis Solution Separation (MHSS) Receiver Autonomous Integrity Monitoring (RAIM) algorithm, it is possible to efficiently take advantage of the capabilities of future multiple-constellation Global Navigation Satellite Systems (GNSS) in order to provide error protection for the user. Additionally, large operational costs can be reduced by equipping airplanes with GNSS-enabled instrumentation. This research validates RAIM as an alternate way to bring airplanes down to a 200 ft (60 m) decision height even in poor visibility conditions and at terrain-constrained airports. The performance of the developed RAIM techniques was tested both under assumed nominal conditions and in the presence of simulated measurement faults. According to the current results, aviation users will be able to perform LPV-200 approaches at any runway worldwide based on their own integrity determination and without the need for additional augmentation systems. | Format: Paperback | Language/Sprache: english | 340 gr | 220x150x13 mm | 252 pp.



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