



A Feasibility Study of a Persistent Monitoring System for the Flight Deck of U.S. Navy Aircraft Carriers

By Air Force Institute of Technology (U. S.). Graduate School of Engineering and Management

Biblioscholar Sep 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x12 mm. This item is printed on demand - Print on Demand Neuware - This research analyzes the use of modern Real Time Locating Systems (RTLs), such as the Global Positioning System (GPS), to improve the safety of aircraft, equipment, and personnel onboard a United States Navy (USN) aircraft carrier. The results of a detailed analysis of USN safety records since 1980 show that mishaps which could potentially be prevented by a persistent monitoring system result in the death of a sailor nearly every other year and account for at least \$92,486,469, or 5.55% of the total cost of all flight deck and hangar bay related mishaps. A system to continually monitor flight deck operations is proposed with four successive levels of increasing capability. A study of past and present work in the area of aircraft carrier flight deck operations is performed. This research conducted a study of the movements of USN personnel and an FA-18C aircraft being towed at NAS Oceana, VA. Using two precision GPS recorders mounted on the aircraft wingtips, the position and orientation of the aircraft, in two-dimensions, are calculated and the errors in this solution are explored....



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