

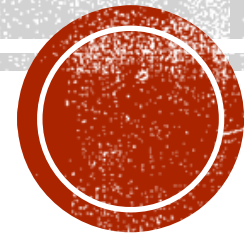
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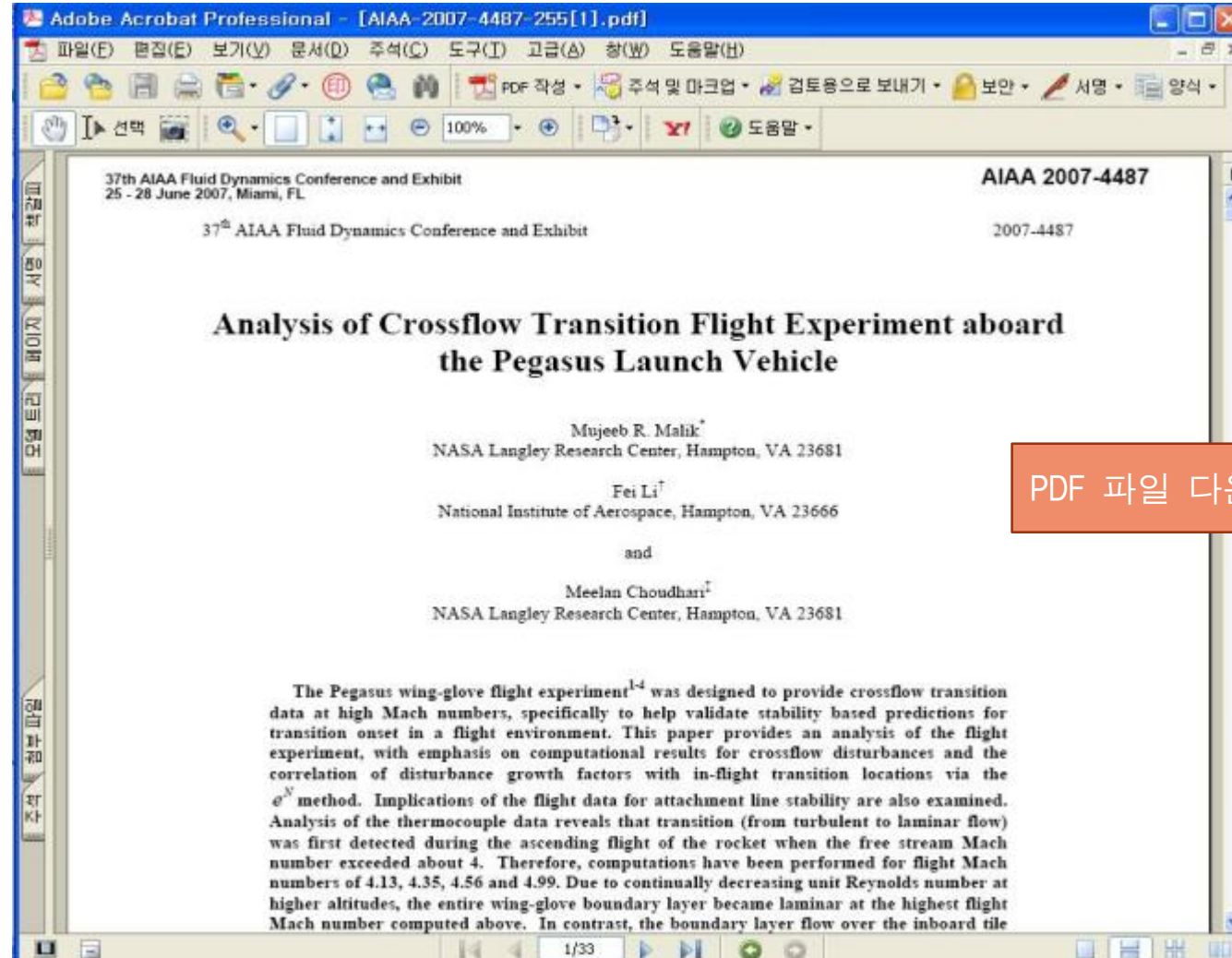
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Embedded Digital Control for Aircraft Environment Control Systems: A Practical Vehicle Management System Approach

Kenneth R. Erickson

Allied-Signal Aerospace Company
AIRResearch Los Angeles Division
Torrance, CA

ABSTRACT

Second-generation digital controls for advanced commercial and military environmental control systems (ECS's) offer significant advantages in control operation, fault tolerance, and fault isolation/built-in test (BIT). "Embedding" the control functions in an integrated digital ECS architecture interfacing with aircraft centralized supervisory functions offers a practical vehicle management system (VMS) which yields significant benefits in system performance, hardware and software supportability, and program cost and schedule management tasks. This paper presents basic control operational concepts now associated with second-generation digital ECS control and quantitative tradeoff study results show-

early 1970's, to the first digital microprocessor designs of the late 1970's and early 1980's. The first-generation digital controllers utilized 8-bit microprocessors and ASSEMBLY language software, with no data bus communication, or a minimum, to send or receive simple data. Control algorithms were, generally, carryovers from analog designs implemented in software. Temperature, pressure, and flow data for the flight crew were produced by independent monitoring systems. During failure modes, the flight crews were kept busy managing the system using manual backup control switches and selectors with a minimum of help from the remaining operational controls. Some systems employed limited automatic backup, but usually with reduced functional performance.