



## Enhanced Self Tuning On-Board Real-Time Model (Estorm) for Aircraft Engine Performance Health Tracking

By -

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 62 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A key technological concept for producing reliable engine diagnostics and prognostics exploits the benefits of fusing sensor data, information, and/or processing algorithms. This report describes the development of a hybrid engine model for a propulsion gas turbine engine, which is the result of fusing two diverse modeling methodologies: a physics-based model approach and an empirical model approach. The report describes the process and methods involved in deriving and implementing a hybrid model configuration for a commercial turbofan engine. Among the intended uses for such a model is to enable real-time, on-board tracking of engine module performance changes and engine parameter synthesis for fault detection and accommodation. This item ships from La Vergne, TN. Paperback.

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