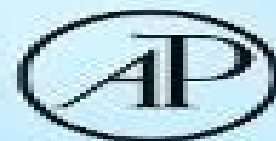




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Fundamentals of Aeroacoustics with Applications to Aeropropulsion Systems

Xiaofeng Sun
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Reliability Based Aircraft Maintenance Optimization and Applications He Ren, Xi Chen, Yong Chen, 2017-03-19 *Reliability Based Aircraft Maintenance Optimization and Applications* presents flexible and cost effective maintenance schedules for

aircraft structures particular in composite airframes By applying an intelligent rating system and the back propagation network BPN method and FTA technique a new approach was created to assist users in determining inspection intervals for new aircraft structures especially in composite structures This book also discusses the influence of Structure Health Monitoring SHM on scheduled maintenance An integrated logic diagram establishes how to incorporate SHM into the current MSG 3 structural analysis that is based on four maintenance scenarios with gradual increasing maturity levels of SHM The inspection intervals and the repair thresholds are adjusted according to different combinations of SHM tasks and scheduled maintenance This book provides a practical means for aircraft manufacturers and operators to consider the feasibility of SHM by examining labor work reduction structural reliability variation and maintenance cost savings Presents the first resource available on airframe maintenance optimization Includes the most advanced methods and technologies of maintenance engineering analysis including first application of composite structure maintenance engineering analysis integrated with SHM Provides the latest research results of composite structure maintenance and health monitoring systems

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