



Aircraft Fatigue: Design, Operational and Economic Aspects

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Aircraft Fatigue: Design, Operational and Economic Aspects contains the proceedings of the "Symposium on Aircraft Fatigue—Design, Operational and Economic Aspects," held in Melbourne, Australia, on May 22-24, 1967. The papers explore the design and operational aspects of the fatigue problem in general aviation and transport aircraft, as well as the economic aspects of the fatigue problem as it affects both operators and manufacturers.

This book is comprised of 21 chapters and begins with a description of an approach to structural reliability analysis based on order statistics and the expected time to first failure in a fleet of specified magnitude, along with its application to structures subject to progressive fatigue damage. The following chapters deal with structural load measurement and analysis; design and certification programs for a wide range of aircraft types including the Anglo-French and American civil supersonic transports; acoustic fatigue; and the design of joints. The detection of fatigue cracks in service and the effects of fatigue on the cost of design and operation of aircraft are also discussed.

This monograph will be a useful resource for aircraft and aeronautical engineers as well as officials of civil aviation.

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