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Extended Aging Theories for Predictions of Safe Operational Life of Critical Airborne Structural Components

By -

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 64 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The previously developed Ko closed-form aging theory has been reformulated into a more compact mathematical form for easier application. A new equivalent loading theory and empirical loading theories have also been developed and incorporated into the revised Ko aging theory for the prediction of a safe operational life of airborne failure-critical structural components. The new set of aging and loading theories were applied to predict the safe number of flights for the B-52B aircraft to carry a launch vehicle, the structural life of critical components consumed by load excursion to proof load value, and the ground-sitting life of B-52B pylon failure-critical structural components. A special life prediction method was developed for the preflight predictions of operational life of failure-critical structural components of the B-52H pylon system, for which no flight data are available. This item ships from La Vergne, TN. Paperback.



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