

## Comprehensive Design Reliability Activities for Aerospace Propulsion Systems



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*(Prof. Ernestine Emard)*

## COMPREHENSIVE DESIGN RELIABILITY ACTIVITIES FOR AEROSPACE PROPULSION SYSTEMS



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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 150 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. This technical publication describes the methodology, model, software tool, input data, and analysis result that support aerospace design reliability studies. The focus of these activities is on propulsion systems mechanical design reliability. The goal of these activities is to support design from a reliability perspective. Paralleling performance analyses in schedule and method, this requires the proper use of metrics in a validated reliability model useful for design, sensitivity, and trade studies. Design reliability analysis in this view is one of several critical design functions. A design reliability method is detailed and two example analyses are provided—one qualitative and the other quantitative. The use of aerospace and commercial data sources for quantification is discussed and sources listed. A tool that was developed to support both types of analyses is presented. Finally, special topics discussed include the development of design criteria, issues of reliability quantification, quality control, and reliability verification. This item ships from La Vergne, TN. Paperback.



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