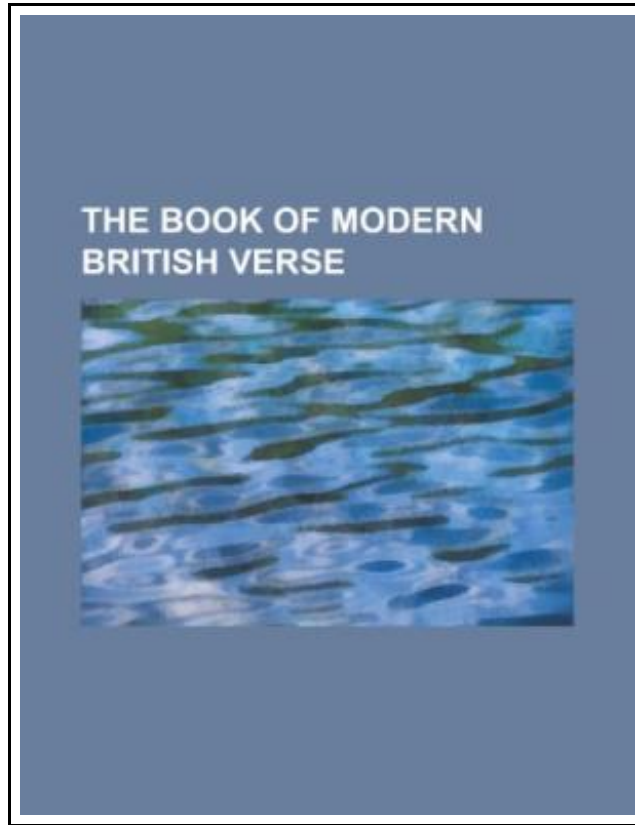


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THE BOOK OF MODERN BRITISH VERSE



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 116 pages. Original publisher: Washington, D. C. : U. S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Research, 2004 OCLC Number: (OCoLC)62121708 Subject: Aircraft gas-turbines -- Safety measures -- Testing. Excerpt: . . . EXECUTIVE SUMMARY Modeling a multilayer fabric composite for engine containment systems during a fan blade-out event has been a challenging task. Nonlinear transient (explicit) finite element analysis (FEA) has the greatest potential of any numerical approach available to industry for analysis of these events. Significant research is still required to overcome difficulties with numerical stability, material modeling (pre-and postfailure), and standardizing modeling methods to achieve accurate simulation of the complex interactions between individual components during these high-speed events. The primary focus of this research was to develop the methodology for testing, modeling, and analyzing a typical fan blade-out event in a multilayer fiber fabric composite containment system. ABAQUS finite element code was used to verify the basic material model (prefailure state) developed through laboratory testing. LS-DYNA was the primary modeling tool used in the explicit FEA of ballistic events. During the Fourth Federal Aviation Administration (FAA) Uncontained Engine Debris Characterization Modeling and Mitigation Workshop (held in May 2000 at SRI International, Menlo Park, CA), a representative of Honeywell Engines, Systems and Services presented the capability of modeling complicated engine hub-burst and fan blade-out events, predicting most of the event with high confidence was shown. At the same time, SRI presented their efforts on modeling the material characteristics within LS-DYNA and developing a new composite fiber material called Zylon that appeared to be stronger, lighter, and more temperature-resistant than Kevlar. Both parties showed interest in each others work, and both agreed...



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