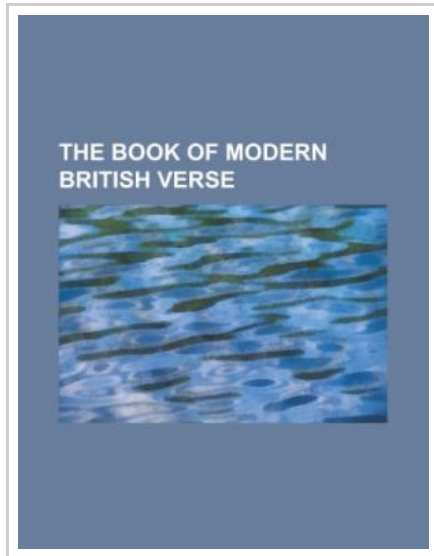



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The Book of Modern British Verse

By -

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...



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