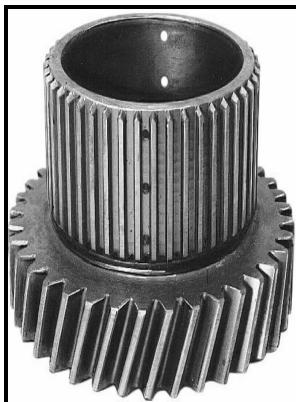


Practical metallic composites - Spring Meeting, 22-25 March 1974.

Institution of Metallurgists - STP 1450



Description: -

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Metallic composites.Practical metallic composites - Spring Meeting, 22-25 March 1974.

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Series 3 -- no. 1.
Series 3 -- no. 1.Practical metallic composites - Spring Meeting, 22-25 March 1974.

Notes: Includes bibliographies.
This edition was published in 1974



Filesize: 70.75 MB

Tags: #STP #1450

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. The Federal Aviation Administration FAA sponsored this research to advance efforts to incorporate damage tolerance design and analysis as requirements for rotorcraft certification. These experiments included measurements of criticality, differential and integral control rod and safety rod worths, kinetics, reaction rates, water ingress effects, and small sample reactivity effects Ref.

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The second major objective is to expedite the development of sensors and their attendant algorithms for ultimate use in space and to simulate from an aircraft, the data to be acquired from spaceborne sensors. Rotorcraft design work in a government laboratory must support research, by producing technology impact assessments and defining the context for research and development; and must support the acquisition process, including capability assessments and quantitative evaluation of designs, concepts, and alternatives.

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A complete, and somewhat revolutionary, system design approach is needed to exploit the benefits that a more-electric aircraft can provide. Examples of both simulated and actual flight data processing are given to illustrate each phase of processing. The program source code, the example aircraft equations of motion, a sample input file, and a sample program output are all listed in the appendices.

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The best configurations demonstrated oxide of nitrogen emission levels that were approximately 61 percent lower than those produced by the JT9D-7 engine, but these levels were still approximately 24 percent above the goal of an emission index level of 10.

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