

Quinte Curse



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Reviews

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(Roosevelt Rohan)*

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 50 pages. Original publisher: Hampton, Va. : National Aeronautics and Space Administration, Langley Research Center ; Springfield, Va. : For sale by the National Technical Information Service, 1990 OCLC Number: (OCoLC)25053149 Subject: Hypersonic planes -- Design and construction. Excerpt: . . . matrix materials in combination with boron, Borsic or silicon carbide fibers. In general, Borsic fiber yields higher strength than the uncoated boron. Silicon carbide fibers are not as strong as boron or Borsic at room temperature, but silicon carbide becomes competitive with the other two at about 1 000F. The elevated temperature behavior and lower cost of silicon carbide makes it an attractive candidate fiber for hypersonic applications. Titanium-aluminides are also potential matrix materials for composites. These composites have potential for use in the range from 1500F to 1800F. Research is directed toward development of silicon carbide fibers and possibly titanium diboride fibers for use with titanium aluminide matrices. Efforts are focused on fabrication techniques by foil rolling, plasma spraying, arc spraying, and powder metallurgy processes. In one process, for example, silicon carbide fibers are sandwiched between layers of titanium aluminide foil and consolidated by hot isostatic pressing (ref. 12). Graphite-copper composites are under development for use as radiator panels for space stations, and tungsten-copper composites are being studied for use in the combustion liner for the Space Shuttle main engine. These metal-matrix composites have high thermal conductivity, and may find application in the engine cowl lip of an aerospacecraft where this property is essential. See reference 12. Composites using superalloys as matrix materials are the least developed metal matrix systems. The principal concern has been degradation of properties resulting from fiber matrix interaction during extended exposure to elevated temperatures. Methods for fabricating structural...



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