



Silicon-Based Ceramic-Matrix
Composites for Advanced Turbine
Engines: Some Degradation Issues

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By Linus U Thomas-Ogbuji

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 188 mm. Language: English . Brand New Book ***** Print on Demand *****.SiC/BN/SiC composites are designed to take advantage of the high specific strengths and moduli of non-oxide ceramics, and their excellent resistance to creep, chemical attack, and oxidation, while circumventing the brittleness inherent in ceramics. Hence, these composites have the potential to take turbine engines of the future to higher operating temperatures than is achievable with metal alloys. However, these composites remain developmental and more work needs to be done to optimize processing techniques. This paper highlights the lingering issue of pest degradation in these materials and shows that it results from vestiges of processing steps and can thus be minimized or eliminated.



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