

Fracture Toughness and Fatigue of Amorphous Metals and Composites  
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The fracture toughness and fatigue crack growth behavior of both monolithic and composite materials based on bulk amorphous metals are being investigated. A variety of different stress states have been utilized to determine the effects of such changes on the magnitude of the fracture toughness. In addition, the effects of changes in test temperature on both fracture toughness and fatigue behavior are being determined and compared to conventional structural materials. Work is being performed under the DARPA SAM program through ARO-DAAD19-01-0525 and with the supply of materials by W.L. Johnson.