

MATERIALS AND STRUCTURES SYMPOSIUM (C2)
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THE EFFECTS OF WEAVE PARAMETER ON PROPERTIES OF AXIAL CARBON ROD WEAVED
4D C/C COMPOSITES

Abstract

The important mechanical properties of axial carbon rod weaved 4D C/C composites components were obtained by the examination. The finite element method was combined with strain energy-based method for predicting the mechanical properties of axial carbon rod weaved 4D C/C composites, which are equal with the results by homogenization method and the examination. Changing distance between two carbon rod and radius of carbon rod, C/C composites mechanical properties were analyzed quantitatively .