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The Mode Shapes and Frequencies of Carbon Fiber Plates

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Oral Presentation O10.2

THE MODE SHAPES AND FREQUENCIES OF CARBON FIBER PLATES

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In this presentation the effects of the orthogonal construction of cured carbon fiber plate on the vibrational behavior of carbon fiber plates with various shapes and boundary conditions are discussed. Specifically, the mode shapes and mode frequencies will be presented. The vibrational behavior of these objects was observed using speckle-pattern interferometry. In addition, the challenges of imaging various objects using speckle-pattern interferometry will be explained, along with several methods for overcoming these challenges.