

Stress Wave Propagation Effects in Two- and Three-layered Composite Materials

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ABSTRACT: Multilayer materials consisting of ceramic and glass/epoxy composites have been subjected to high strain rate compression testing using the Split Hopkinson Pressure Bar. The samples were extensively strain gaged so that dynamic data were generated directly from the samples during testing. Output data from the experiments were compared with numerical simulations of the same experiments and good agreement was noted. It was found that the stress distribution within samples was quite inhomogeneous and that stresses were highest in the region of the bar-sample interface. The presence of a rubber interlayer between the ceramic and glass/epoxy decreased the stress in both components but dramatically increased the degree of stress inhomogeneity.

KEY WORDS: multilayer structures, finite element analysis, mechanical properties, high strain rate.

INTRODUCTION

MECHANICAL TESTING OF conventional metallic materials at high strain rates is a relatively mature technical undertaking. Typical equipment includes the Split Hopkinson Pressure Bar (SHPB), flyer plate tests, and so forth. However, an increasing number of newer materials are being considered for applications where high strain rates are encountered and testing of these is more problematical. For example, many polymers

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