A METHODOLOGY TO VALIDATE 3D ARBITRARY LAGRANGIAN EULERIAN CODES WITH APPLICATIONS TO ALEGRA

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Summary-In this study we provided an experimental test bed for validating features of the Arbitrary Lagrangian Eulerian Grid for Research Applications (ALEGRA) code over a broad range of strain rates with overlapping diagnostics that encompass the multiple responses. A unique feature of the ALEGRA code is that it allows simultaneous computational treatment, within one code, of a wide range of strain-rates varying from hydrodynamic to structural conditions. This range encompasses strain rates characteristic of shock-wave propagation (107/s) and those characteristics of structural response (107/s). Most previous code validation experimental studies, however, have been restricted to simulating or investigating a single strain-rate regime. What is new and different in this investigation is that we have performed well-controlled and well-instrumented experiments, which capture features relevant to both hydrodynamic and structural response in a single experiment. Aluminum was chosen for use in this study because it is a well-characterized material. The current experiments span strain rate regimes of over 107/s to less than 107/s in a single experiment. The input conditions were extremely well defined. Velocity interferometers were used to record the high strain-rate response, while low strain rate data were collected using strain gauges. Although the current tests were conducted at a nominal velocity of - 1.5 km/s, it is the test methodology that is being emphasized herein. Results of a three-dimensional experiment are also presented.

INTRODUCTION

Sandia National Laboratories is developing a code referred to as ALEGRA which is a multimaterial arbitrary Lagrangian Eulerian code [1] for use in many programs related to research applications. A unique feature of ALEGRA is that it allows simultaneous computational treatment, within one code, of a wide range of strain-rates varying from encompasses strain rates characteristic of shock-wave propagation (10⁷/s) and those characteristics of structural response (10²/s) [2]. It combines the features of modern Eulerian codes such as CTH [3] with modern Lagrangian shock wave physics codes and transient structural analysis codes. Some examples of applications with varying strain rates include (but are not limited to) high velocity impact and penetration processes [4], explosively formed projectiles, and shaped charge jet formation.

Validating a code requires both postdating and predicting pertinent experimental data. The most useful validation experiments are reproducible and highly instrumented [5], with well-understood experimental errors. There are many parts of a calculation that we must validate: geometry, initial conditions, boundary conditions, material flow algorithms (remeshing and remapping algorithms), and material models, including EOS, constitutive relations and fracture models. There are also issues associated with meshing resolution and geometric fidelity. In many cases pertinent experimental data are available for a single strain rate regime and are used when appropriate to this regime. However, within certain applications that ALEGRA is

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