NUMERICAL SIMULATION OF A HIGH EXPLOSIVE CRATERING EXPERIMENT IN A COMPLEX MULTILAYERED GEOLOGY

GLENN,H.D.;THOMSEN,J.M.

Computer codes were used to simulate a 42-GJ (10 Ton) high explosive cra-tering experiment in a complex, multilayered geology. The preshot calculational predictions are compared to dynamic measurements taken well within the final crater radius and postshot measurements of the final crater profile. Geologic layering has a definite effect on energy coupling, shock propagation, and final crater dimensions. Results from the various computer codes agreed well with the experimental results.