

TRUCK - A DIGITAL COMPUTER PROGRAM FOR CALCULATING THE RESPONSE OF ARMY VEHICLES TO BLAST WAVES

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A computer program called TRUCK has been prepared for the purpose of analyzing the response of Army vehicles to blast waves. The program permits the inclusion of non-linear springs and dampers and allows large rotations, thus making it applicable to the overturning problem. The tire-ground interaction model permits the tire to leave the ground, and to stop sliding. Spring bottoming is handled as an elastic collision. A shelter mounted on the vehicle and equipment racks within the shelter are permitted to undergo motions relative to the vehicle body.