

DYNAMIC SHOCK WAVE MEASUREMENTS IN COARSE SATURATED ROCK FILL,

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A coarse, saturated rock fill has been thoroughly instrumented to measure shock waves in the fill. Waves generated by buried charges and by heavy weights dropped at the fill to compact it, have been recorded and analyzed. The dynamic properties of the fill are determined by separate seismic measurements. The results are interpreted to study the nature of shock wave propagation in this type of material, and to evaluate the ability of different instrumentation to measure dynamic stresses in such coarse fill.