UNDERWATER EXPLOSION PHENOMENA

HELD,M.

Both the damage number DN and the square root law in the distance versus weight plane for a damage caused by a shock wave in air are similar to the shock load formulas in the underwater field. It will be shown that the empirical underwater shock formula can be derived from the energy density as well as from the product of maximum overpressure times impulses that are known from the well established underwater formulas. These results are corresponding very well to the air blast equations.