
Underwater Explosions Cole Robert H Princeton

calculating the effect of surface or underwater explosions ... - robert cole's book *underwater explosions* (ref. 2) includes some very useful experimental data for these parameters based on testing of 300-lb tnt charges in about 100 ft of water. these results are summarized in table ii. they clearly show the enhancement of the shock wave parameters that occurs when a charge is fired **ad-767 019 - apps.dtic** - the effects of underwater explosions on swimbladder fish i. introduction 1.1 a number of "fishermen" are familiar with the effects of underwater explosions on fish. even a rather small charge of dynamite, if it lands near a school of fish, can go far towards filling the creel. the navy has an antipodal **model of impact underwater detonation** - knowledge of loads determined during simulative explosions is helpful in dimensioning ship's ... the empirical formulas consists maximum pressure p_{max} , which robert cole described the ... model of impact underwater detonation 6. the simulation results on the effects of underwater detonation of the ship hull **extension of the planar noh problem to aluminum, iron ...** - extension of the planar noh problem to aluminum, iron, copper, and tungsten chloe' e. yorke, april d. howard, sarah c. burnett, kevin g. honnell a), scott d. ramsey, and robert l. singleton, jr. computational physics & theoretical design divisions los alamos national laboratory los alamos, nm usa a)corresponding author: kgh@lanl abstract. **the theory of bulk cavitation - apps.dtic** - cole, robert h., *underwater explosions* (princeton university press, princeton, n. j., 1948), p. 261. 2 the spalled water layer is driven back downward so that ultimately it must impact the underlying water; the dynamics of this process produces a traveling source of secondary pressure waves in the water. ... **distribution restriction statement - osmre** - the airblast generated by underwater explosions as a function of scaled depth ($d/wl/3$), scaled range ($r/wl/3$), and at a constant scaled height above the water surface of $0.25 \text{ ft}/lb^{1/3}$. in all cases, the charge should first be converted to its tnt equivalency before scaling. the airblast data is available only down to 0.25 psi. **predicting weapon effects for defense and homeland security** - physics software for predicting underwater explosions and their effects on marine structures. the capabilities of dysmas for predicting weapons effects are not limited to naval applications. dysmas enjoys a wide user base spanning multiple government agencies, and it is solving real-world problems affecting sea war, land war and homeland security. **calumet harbor - bedrock removal to authorized depth** - the airblast generated by underwater explosions as a function of scaled depth ($d/wl/3$), scaled range ($r/wl/3$), and at a constant scaled height above the water surface of $0.25 \text{ ft}/lb^{1/3}$. in all cases, the charge should first be converted to its tnt equivalency before scaling. the airblast data is available only down to 0.25 psi. **measuring mechanical shock - pcb piezotronics** - technical note pcb piezotronics, inc. • pcb-2-abstract this work provides a brief explanation of the physics associated with underwater explosions along with a historical record of the **fish kill ranges for oil well severance explosions** - underwater pressure signatures from these severance explosions in all their intricate details. the principal result of the confinement, added mass and attenuation caused by the casing and surrounding bottom material is a considerably lower peak pressure and an increase in the duration of the principal pulse from **926. high quality simulation of the effects of underwater ...** - 926. high quality simulation of the effects of underwater detonation impact ... knowledge of loads determined during simulative explosions is helpful in dimensioning ... the empirical formulas consists maximum pressure $I \rightarrow \ddot{O} \ddot{e}$, which robert cole described the

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