

34-54 NUMERICAL SIMULATION OF MULTI LAYER EXPLOSIVE WELDING USING UNDERWATER SHOCK WAVE

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A process of multi-layer explosive welding driven by underwater shock wave is numerically simulated. A flyer plate is accelerated by underwater shock wave and collided with the multi-layer plates at high velocity which is available to weld the thin plates simultaneously. Using this method, non-equilibrium plates like amorphous film is welded onto steel plates are numerically simulated as a purpose of expressing the underwater explosive welding process of the multi-layers plates simultaneously.

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