

AD-A193 878

EXPERIMENTAL INVESTIGATION OF THE REFLECTION OF A
PLANAR SHOCK WAVE OVER A. (U) BEN-GURION UNIV OF THE
NEGEV BEERSHEVA (ISRAEL) G BEN-DOR 30 NOV 87

1/1

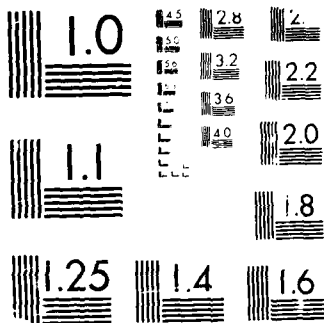
UNCLASSIFIED

R/D-5836-PH-81 DAJA45-87-C-8842

F/G 28/4

NL





MICROCOPY RESOLUTION TEST CHART

1963-A

3

AD-A193 078

DTIC FILE COPY

Experimental Investigation of the Reflection of a Planar Shock
Wave over a Double Wedge

1st Periodical Report
by
Professor G. Ben-Dor

Period: Oct. 1 - Nov. 30, 1987

Contract: DAJA 45-87-C-0042

DTIC
ELECTE
MAR 28 1988
S D
H

DISTRIBUTION STATEMENT A

Approved for public release;
Distribution Unlimited

8 8 98 105

I. Work completed during the reported period:

1. Experiments of the reflection of a planar shock wave over various double wedge combinations have been conducted.
2. The experiments were conducted with $M_i = 1.3$ and a variety of $\theta_w^1 - \theta_w^2$ combinations.
3. The experiments were recorded using schlieren photography, shadowgraphs and high-speed photography.

II. Work to be done in the remaining period of the contract.

1. Complete the experimental study to cover the entire $\{\theta_w^1 - \theta_w^2\}$ -plane and other values of incident shock wave Mach numbers.
2. Evaluate the experiments and compare them with the analysis developed by Ben-Dor & Dewey.
3. Conduct pressure measurements along the first and second surfaces of the double wedge for various $\theta_w^1 - \theta_w^2$ combinations and evaluate the results.
4. Develop a numerical code to simulate the phenomenon.

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By <i>per Form 50</i>	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
<i>A-1</i>	



END

DATE

FILMED

DTIC

JULY 88

