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• For numerical output of this problem, refer to Vol. II of this report filed in the Document Library of Ballistics Research Laboratories.

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D. List of Labels

DECIDE

$DX(S)$ = Eulerian space interval in region S at $t = 0$

$$= L(S)/Z\emptyset N(S)$$

$H(S)$ = no. of cells from left boundary through region S

$$= \sum_{L=2}^S Z\emptyset N(L)$$

B5INIT(S)

$RH\emptyset(S)$ = density at zero pressure in region S

$A1, A2, A3$ = coefficients in Eq. (4.5)

$DV(S)$ = $v_2(p, T) - v_1(p, T)$

PM = pressure at which the Hugoniot in phase I intercepts
the phase boundary

$CV1$ = C_{v1}

$CVMIX$ = $C_{v,m}$

$GAMM1(S)$ = Γ

$E\emptyset$ = internal energy at the foot of the Hugoniot

$T\emptyset$ = T_0

$DPDTMX$ = $(\partial p / \partial T)_{v,m}$

$TAU\emptyset$ = $1/\tau$, Eq. (5.11)

VP = specific volume in phase I at $p = PM = v_1(pM, T)$

$V2$ = $v_2(pM, T)$

$CSPS$ = starting value for sound speed

J = index for space grid

$V(J)$ = v_j

$U(J)$ = U_j

$Q(J)$ = q_j