

N = solenoid turns/cm or number of turns in pickup coil

\vec{A} = magnetic vector potential

D = shock or longitudinal velocity or demagnetizing factor

V = specific volume or oscilloscope voltage

Z = mechanical impedance = $\rho_0 D$ or transmission line impedance

P = longitudinal stress

u = particle velocity

E = energy

S = entropy

Γ = Grüneisen constant

$P_H^0(V)$ = initial Hugoniot

η = $1 - V/V_0$

P', V', E', η' = thermodynamic state on initial Hugoniot

$\mathcal{E}(t)$ = emf developed across pickup coils

b = width of pickup coil

ϕ = magnetic flux

δM = shock induced change in magnetization

\mathcal{E}' = shock induced emf across solenoid

\mathcal{E}'' = emf due to magnetic velocity gauge effect

$\mathcal{E}_{\max}, \mathcal{E}_{\min}$ = defined by maximum and minimum in demagnetization profile