H	work-hardening coefficient
H'	coefficient in Saada's relation
HEL	Hugoniot elastic limit
h	number in Gruneisen-Borelius relation
$\hbar$	Planck's constant
I	electrical current, an integral (Sec. III.B)
J	integral in Bloch resistivity theory
K	several constants
°K	absolute temperature
K_T	isothermal compressibility
k	electron wave number, material diffusivity (Sec. IV.J)
k_B	Boltzmann's constant
k_F	electron wave number at the Fermi surface
ℓ	electron mean free path, parameter in heat flow calculation (Appendix D)
MRC	Materials Research Corporation
M	gram molecular weight
m	electron mass
N	quantity of defects
n	conduction electron density
P	pressure
P_p	potential pressure
P_x	negative of longitudinal stress
$\overline{P}$	mean pressure
p	parameter in heat flow calculation
p_F	electron momentum at Fermi surface
R	resistance, gas constant (Sec. III.B)

r	$(\sigma_I/\sigma_F - 1)$
S	entropy, Fermi surface area (Sec. III.A.2)
s	stress relaxation time
s_j	stress deviator
T	temperature
t	time
U_s	shock-wave speed
u	particle speed, temperature in heat flow equation (Sec. IV.J).
V	volume per gram, potential energy (Sec. III.A.1)
v	vacancies
W_P	work of pore collapse
W_{PD}	work of plastic deformation
W3N	Wilkinson three nine
X	V/V_o
X_k	extensive parameter in entropy representation
x	position coordinate
Y	quasi-static yield stress in tension
z_n	eigenvalues of heat flow problem
α	temperature coefficient of resistivity
α'	volume coefficient of thermal expansion
β	$\rho(V,T) - \alpha(V)T$
β_T	isothermal bulk modulus
γ	Gruneisen parameter
Δ	finite change in following parameter
δ	parameter in equation of state
ϵ	strain