

- Graham, R. A., and W. P. Brooks, Shock-wave compression of sapphire from 15 to 420 kbar: The effects of large anisotropic compressions, *J. Phys. Chem. Solids*, **32**, 2311-2330, 1971.
- McClure, D. S., Electronic spectra of molecules and ions in crystals, 2, Spectra of ions in crystals, *Solid State Phys.*, **9**, 399-525, 1959.
- McQueen, R. G., S. P. Marsh, J. W. Taylor, J. N. Fritz, and W. J. Carter, The equation of state of solids from shock wave studies, in *High Velocity Impact Phenomena*, edited by R. Kinslow, pp. 294-419, Academic, New York, 1970.
- Minomura, S., and H. G. Drickamer, Effect of pressure on the spectra of transition metal ions in MgO and Al₂O₃, *J. Chem. Phys.*, **35**, 903-907, 1961.
- Pitt, G. D., and D. C. Tozer, Radiative heat transfer in dense media and its magnitude in olivines and some other ferromagnesian minerals under typical upper mantle conditions, *Phys. Earth Planet. Interiors*, **2**, 189-199, 1970.
- Preonas, D. D., and H. F. Swift, A high-intensity point light source, paper presented at 9th International Congress on High-speed Photography, Univ. of Denver Res. Inst., Denver, Colo., December 1970.
- Schatz, J. F., and G. Simmons, Thermal conductivity of earth materials at high temperatures, *J. Geophys. Res.*, **77**, 6966-6983, 1972.
- Shankland, T. J., Pressure shifts of absorption bands in MgO:Fe²⁺ and the dynamic Jahn-Teller effect, *J. Phys. Chem. Solids*, **29**, 1907-1909, 1968.
- Stephens, D. R., and H. G. Drickamer, Effect of pressure on the spectrum of ruby, *J. Chem. Phys.*, **35**, 427-429, 1961.
- Tanabe, Y., and S. Sugano, On the absorption spectra of complex ions, 3, The calculation of the crystalline field strength, *J. Phys. Soc. Jap.*, **11**, 864-877, 1956.
- Yakusheva, O. B., V. V. Yakushev, and A. N. Dremin, The opacity mechanism of shock-compressed organic liquids, *High Temp. High Pressure*, **3**, 261-266, 1971.

(Received November 13, 1972;
revised April 13, 1973.)