


1980, Ashworth, J.R. "Deformation mechanisms in mildly shocked chondritic diopside" Meteoritics 15 105-115

1980, Astanin, V.V. "Experimental study of the shock compression of metals in elastoplastic loading waves up to 10,000 MPa intensity" Indust. Lab. 46 836-840

1980, Astanin, V.V. "Experimental investigation of the elastic precursors of plane elastoplastic waves in metals" Strength Mater. 12 772-776


1980, Blazynski, T.Z. and El-Sobky, H. "Structural properties of implosively welded multilayered cylinders" Metals Technol. 7 107-113


1980, Borejko, P. and Chadwick, P. "Energy relations for acceleration waves in elastic materials" Wave Motion 2 361-374
1980, Borisevich, V.K., Solodyankin, S.N., Sabelkin, V.P. and Isaenko, V.I. "Increasing the strength properties of sheet parts by explosive forming of them with optimization of the production parameters" Strength Mater. 12 1184-1188


1980, Dandekar, D.P., Martin, A.G. and Kelley, J.V. "Deformation of depleted uranium - 0.78 Ti under shock compression to 11.0 GPa at room temperature" J. Appl. Phys. 51 4784-4789


1980, Dick, J.J. and Engelke, R. "Reproducibility of planewave transit times in three explosives during initiation: Comparison to wedge experiments" Propell. Explos. 5 139-144


1980, Freund, L.B. and Douglas, A.S. "Shear waves in an elastic-plastic material due to a supersonic surface step load" Wave Motion 2 159-165
1980, Gupta, Y.M. "Determination of the impact response of PMMA using combined compression and shear loading" J. Appl. Phys. 51 5352-5361
1980, Gust, W.H. "Phase transition and shock compression parameters to 120 GPa for three types of graphites and for amorphous carbon" Phys. Rev. B 22 4744-4756
1980, Hardy, R.J. "Temperature and pressure dependence of intrinsic anharmonic and quantum corrections to the equation of state" J. Geophys. Res. 85 7011-7015
1980, Harris, P. "Band-gap collapse in uniaxially strained (shocked) elastic germanium" J. Appl. Phys. 51 6033-6034
1980, Heard, H.C. and Cline, C.F. "Mechanical behaviour of polycrystalline BeO, Al₂O₃ and AlN at high pressure" J. Mater. Sci. 15 1889-1897
1980, Jackson, J.E. and Cost, T.L. "Nonlinear hydrodynamic shock propagation analysis by the finite element method" Int. J. Engng Sci. 18 351-356
1980, Johnson, J.B. "A model for snow-slab failure under conditions of dynamic loading" J. Glaciology 26 245-254
1980, Kirillin, A.V. and Sheindlin, M.A. "A laser-heating system for researching the parameters of refractory substances at high temperatures and pressures" High temp. USSR 18 733-738
1980, Kondo, K.-I., Mashimo, T. and Sawaoka, A. "Electrical resistivity and phase transformation of hematite under shock compression" J. Geophys. Res. 85 977-982
1980, Kosinski, W. "Fracture effects in the propagation of a shock wave through a bulk solid" Arch. Mech. 32 421-430
1980, Lovins, A.B. "Nuclear weapons and power-reactor plutonium" Nature 283 817-823
1980, Lyzenga, G.A. and Ahrens, T.J. "Shock temperature measurements in Mg$_2$SiO$_4$ and SiO$_2$ at high pressures" Geophys. Res. Letts 7 141-144
1980, Manwell, A.R. "A variational principle for steady homenergetic compressible flow with finite shocks" Wave Motion 2 83-95


1980, Morris, C.E. and Fritz, J.N. "Relation of the 'solid Hugoniot' to the 'fluid Hugoniot' for aluminum and copper" J. Appl. Phys. 51 1244-1246


1980, Mulargia, F. "Reply to comment on 'On the theoretical evaluation of the Grüneisen function in the harmonic approximation'" J. Geophys. Res. 85 1513-1514


1980, Owens, F.J. and Sharma, J. "X-ray photoelectron spectroscopy and paramagnetic resonance evidence for shock-induced intramolecular bond breaking in some energetic solids" J. Appl. Phys. 51 1494-1497
1980, Powell, J.D. and Batteh, J.H. "Effects of solitary waves upon the shock profile in a three-dimensional lattice" J. Appl. Phys. 51 2050-2058


1980, Rosenberg, Z., Yaziv, D. and Partom, Y. "Direct measurement of strain in plane impact experiments by a longitudinal resistance gauge" J. Appl. Phys. 51 4790-4798


1980, Roylance, D. "Stress wave damage in graphite/epoxy laminates" J. Compos. Mater. 14 111-119


1980, Sears, D.W. "Thermoluminescence of meteorites: Relationships with their K-Ar age and their shock and reheating history" Icarus 44 190-206
1980, Sikorov, V.N. and Degtyareva, V.F. "Phase transformation in Ti-Nb alloys exposed to shock waves" Phys. Metals Metallog. 48(1) 181-182
1980, Steinberg, D.J., Cochran, S.G. and Guinan, M.W. "A constitutive model for metals applicable at high-strain rate" J. Appl. Phys. 51 1498-1504
1980, Stepanov, G.V. "Deformation and fracture of materials under impulsive loads" Strength Mater. 12 1238-1246
1980, Tulis, A.J. "Effect of ammonium perchlorate particle size on its detonation characteristics when sensitized with small amounts of nitroguanidine" J. Hazard. Mater. 4 113-119
1980, Yokomizo, T. and Yamamasu, M. "Measurement of cavitation shock around two-dimensional elliptic cylinders" Bull. JSME 23 201-209
1980, Zharkov, V.N., Zasursky, I.J., Trubitsyn, V.P. and Tsarevskii, I.A. "The Grüneisen parameter, the melting curves and the adiabatic gradient for mantle and core" Phys. Earth Planet. Inter. 22 165-172
1980, Zygmunt, B. "Initiation of the detonation of water-filled high explosives with a different grain structure by shocks" Combust. Explos. Shock Waves 16 435-438


1981, Benveniste, Y. "One-dimensional wave propagation in an initially deformed incompressible medium with different behaviour in tension and compression" Int. J. Engng Sci. 19 697-711


1981, Coffey, C.S. and Jacobs, S.J. "Detection of local heating in impact or shock experiments with thermally sensitive films" J. Appl. Phys. 52 6991-6993

1981, Cohn, S.N. and Ahrens, T.J. "Dynamic tensile strength of lunar rock types" J. Geophys. Res. 86 1794-1802


1981, German, V.N., Tsypkin, V.I., Mineev, V.N. and Ivanov, A.G. "Behavior of Kh18N10T steel under the combined effect of shock loading and high-speed deformation" Strength Mater. 13 1171-1173


1981, Haugstad, B.S. and Dullum, O.S. "Finite compressibility in shaped charge jet and long rod penetration – the effect of shocks" J. Appl. Phys. 52 5066-5071
1981, Hawke, R.S. "Devices for launching 0.1g projectiles to 150 km/s or more to initiate fusion. 2: Railgun accelerators" Atomkernenergie Kerntechnik 38 35-46
1981, Hoenig, C.L. and Yust, C.S. "Explosive compaction and microstructural analysis of AlN, amorphous silicon nitride, boron and alumina ceramics" Bull. Amer. Ceram. Soc. 60 1175-1176, 1221-1224
1981, Jackson, I. and Ringwood, A.E. "High-pressure polymorphism of the iron oxides" Geophys. J. R. Astron. Soc. 64 767-783
1981, Kachan, M.S. "Melting near the contact point in oblique contact of plates" Combust. Explos. Shock Waves 17 97-101


1981, Kiefer, J.H. and Manson, A.C. "Refractive index change and curvature in shock waves by angled beam refraction" Rev. Sci. Instrum. 52 1392-1396


1981, Kondo, K., Yasumoto, Y., Sugiura, H. and Sawaoka, A. "Multiple shock reverberations in a layer structure observed by particle-velocity and pressure gauges" J. Appl. Phys. 52 772-776

1981, Kondo, K. and Sawaoka, A. "Relaxation of local high temperatures due to shock compression as observed by the emf from a copper-Constantan junction" J. Appl. Phys. 52 1590-1591

1981, Kondo, K., Sawaoka, A. and Ahrens, T.J. "Electrical measurements on fused quartz under shock compression" J. Appl. Phys. 52 5084-5089
1981, Kuznetsov, N.M., Popov, V.M. and Khodyko, Y.V. "Radiation structure of the relaxation zone of a shock wave in two-phase rarefied media" J. Engng Phys. 41 1247-1252
1981, Lambert, P. "Reflectivity applied to peak pressure estimates in silicates of shocked rocks" J. Geophys. Res. 86 6187-6204
1981, McCarthy, M.F. "One-dimensional shock waves in magnetized electrically conducting elastic materials" Arch. Mech. 33 443-450
1981, Mitomo, N. and Setaka, N. "Consolidation of Si$_3$N$_4$ by shock compression" J. Mater. Sci. 16 851-852
1981, Nikolaevskii, V.N. "Limit velocity of fracture front and dynamic strength of brittle solids" Int. J. Engng Sci. 19 41-56


1981, Olinger, B. and Newkirk, L.R. "Bulk A15, high T_c Nb_3Si synthesized by shock compression" Solid State Commun. 37 613-617


1981, Piechór, K. "Regular intersection of two weak shock waves" Arch. Mech. 33 829-843


1981, Pluchino, S. "Interaction of a weak wave with a characteristic shock in a hyperelastic medium" Meccanica 16 192-195


1981, Sato, H., Uematsu, M. and Watanabe, K. "Determination of the PVT surface of water based on the measured values up to 1123K and 1GPa" Bull. JSME 24 691-699
1981, Setaka, N. and Sekikawa, Y. "Diamond synthesis from carbon precursor by explosive shock compression" J. Mater. Sci. 16 1728-1730

1981, Steinberg, D.J. and Sharp Jr., R.W. "Interpretation of shock-wave data for beryllium and uranium with an elastic-viscoplastic constitutive model" J. Appl. Phys. 52 5072-5083

1981, Steinberg, D.J. "The temperature dependence of Grüneisen's gamma at high temperature" J. Appl. Phys. 52 6415-6417


1981, Ting, T.C.T. "Intrinsic description of 3-dimensional shock waves in nonlinear elastic fluids" Int. J. Engng Sci. 19 629-638


1981, Trzesowski, A. "On the compressibility of a spherical solid body" Arch. Mech. 33 11-20


1981, Tsypkin, V.I. and Ivanov, A.G. "Scale effects in explosive failure of wound strip shells" Strength Mater. 13 794-797


1981, van der Zwaag, S. "Liquid impact and contact damage in brittle solids", PhD thesis, Univ. of Cambridge


1981, Vorthman, J.E. and Duvall, G.E. "Effects of temperature on attenuation of the shock wave precursor in <100> LiF" J. Appl. Phys. 52 764-771


1981, Walker, F.E. "Description of a shock-wave velocity barrier" Propell. Explos. 6 15-16


1981, Wlodarczyk, E. "General closed-form solutions of the equations of one-dimensional nonstationary isentropic motions of isotropic elastic media subject to finite deformations" Arch. Mech. 33 73-81


1981, Zerilli, F.J. "Notes from lectures on detonation physics", NSWC MP 91-399, Dahlgren, VA, Naval Surface Warfare Center
1981, Zhdan, S.A. "Dynamic load acting on the wall of an explosion chamber"
Combust. Explos. Shock Waves 17 241-244