Shock Physics Papers 1940s

1940, Bethe, H.A. and Teller, E. "Deviation from thermal equilibrium in shock waves", X-117, Aberdeen, Maryland, Ballistics Research Laboratory
1940, Birch, F. "The alpha-gamma transformation of iron at high pressures and the problem of the Earth's magnetism" Amer. J. Sci. 238 192-211
1940, Carl, L.R. "Breaking theory of detonation" J. Franklin Inst. 230 75-94, 207-227, 355-374
1940, Muraour, H. and Michel-Lévy, A. "Obtention de spectres de métaux par rencontre d'ondes de choc" J. Phys. Radium (Ser. 7) 1 260-264
1941, Lyman, A.K.B. "Compaction of cohesionless foundation soils by explosives" Proc. ASCE 67 769-780
1941, Meijering, J.L. "Some relations concerning the compressibility of the solid elements" Physica 8 796-804
1942, Cowling, T.G. "The influence of diffusions on the propagation of shock waves" Philos. Mag. (Ser. 7) 33 61-67
1942, Muraour, H. "Ondes de choc et luminosités de détonation" Chimie Industrie 47(1) 3-15
1942, Rae, J. "The use of fired small-arms cartridge cases in the production of some alpha-beta extrusion brasses: Indications of the effects of the physical properties of the extruded rods" J. Inst. Metals 68 311-328
1942, Sharpe, J.A. "The production of elastic waves by explosion pressure. 1: Theory and empirical observations" Geophysics 7 144-154
1942, Sharpe, J.A. "The production of elastic waves by explosion pressure. 2: Results of observations near an exploding charge" Geophysics 7 311-321
1943, Birch, F. "Elasticity of rocks at high temperatures and pressures" Bull. Geol. Soc. Amer. 54 263-286
1943, Simmons, E.E., "Explosion pressure gauge", United States, patent no. 2,327,935
1943, Zeldovich, J.B. and Leipunsky, O.I. "Obtaining of extremely high temperatures" J. Phys. USSR 7 245
1944, Anon. "Shock resistance and impact resistance of zinc alloys (in German)" Z. vereines deutscher Ingenieure 88 108
1944, Carl, L.R. "Brass welds made by detonation impulse" Metal Progress 46(1) 102-103
1944, Lawrence, R.W. "Mechanism of detonation in explosives" Geophysics 9 1-18
1944, Murnaghan, F.D. "The compressibility of media under extreme pressures" Proc. Nat. Acad. Sci. USA 30 244-247
1944, Ratner, S.B. "Some measurements of detonation velocity of methylnitrate" C.R. Acad. Sci. URSS 42 265-267
1944, Roy, M. "Sur la structure de l'onde de choc, limité d'une quasi-onde de choc dans un fluide compressible et visqueux" C.R. Acad. Sci. 218 813-816
1945, Landau, L. "On shock waves at large distances from the place of their origin" J. Phys. USSR 9 496-500
1945, Landau, L. "On shock waves at large distances from the place of their generation (in Russian)" Prikl. Mat. Mekh. 9(4) 286-292
1946, Hackman, E.E. "Preliminary investigation of spark discharges along shock waves" Phys. Rev. 69 130
1946, Lorimer, J. "Some uses of explosives in civil engineering" J. Inst. Civil Engrs 26 50-112
1946, McMillen, J.H. and Harvey, E.N. "A spark shadowgraphic study of body waves in water" J. Appl. Phys. 17 541-555
1946, Osborne, M.F. and Taylor, A.H. "Nonlinear propagation of underwater shock waves" Phys. Rev. 70 322-328
1946, Sachs, R.G. "Some properties of very intense shock waves" Phys. Rev. 69 514-522
1946, Wilson, E.B. "Effects of Impact and Explosion", publ. Washington DC, Office of Scientific Research and Development
1946, Zeldovich, J. "The possibility of rarefaction shock waves" J. Phys. USSR 10 325-326
1947, Birch, F. "Finite elastic strain of cubic crystals" Phys. Rev. 71 809-824
1947, Dietz, R.S. "Meteorite impact suggested by orientation of shatter cones at the Kentland, Indiana, disturbance" Science 105 42-43
1947, Dobyns, D.R. "A study of seismic character and energy return from shooting high- and low-velocity explosives" Geophysics 12 618-638
1947, Harvey, E.N. and McMillen, J.H. "An experimental study of shock waves resulting from the impact of high velocity missiles on animal tissues" J. Exper. Medicine 85 321-328
1947, Muraour, H. "Poudres et Explosifs", publ. Paris, Presse Universitaires de France
1947, Taub, A.H. "Refraction of plane shock waves" Phys. Rev. 72 51-60
1948, Clark, G.B. and Bruckner, W.H. "Behavior of metal cavity liners in shaped explosives charges" Trans. AIME 176 527-540
1948, Cook, J.H. "Engraving on metal plates by means of explosives" Research 1 474-477
1948, Eckart, C. "The thermodynamics of irreversible processes. 4: The theory of elasticity and anelasticity" Phys. Rev. 73 373-382
1948, Truesdell, C. "On the transfer of energy in continuous media" Phys. Rev. 73 513-515
1948, Truesdell, C. "On the total vorticity of motion of a continuous medium" Phys. Rev. 73 510-512
1949, Augenstein, B.W. "Passage of finite amplitude pressure waves through temperature discontinuities" Phys. Rev. 75 521-522
1949, Lazarus, D. "The variation of the adiabatic elastic constants of KCl, NaCl, CuZn, Cu and Al with pressure to 10,000 bars" Phys. Rev. 76 545-553
1949, Michel-Lévy, A. "The synthesis of crystals produced in gaseous media by detonation of explosive mixtures" Disc. Farad. Soc. 5 325-326
1949, Mintrop, L. "On the stratification of the Earth’s crust according to seismic studies of a large explosion and of earthquakes" Geophysics 14 321-336