INDEX TO VOLUME 191 (A)

Absorption spectra of benzene derivatives in the vacuum ultra-violet, I (Price & Walsh), 22.
Absorption spectra of benzene derivatives in the vacuum ultra-violet, II (Walsh), 32.
Application of quaternions to rotations in hyperbolic space of four dimensions (Conway), 137.
Atkins, W. R. G. & Ellison, M. A. Photoelectric measurements of the seasonal variations in daylight at Plymouth, from 1938 to March 1941, compared with the years 1930 to 1937, 467.
Attempts to detect the emission of secondary charged particles in the fission of $^{235}$U by slow neutrons (Cassels, Dainty, Feather & Green), 428.

Binding energies of very light nuclei (Fröhlich, Kun Huang & Sneddon), 61.
Born, M. & Green, H. S. A general kinetic theory of liquids. IV. Quantum mechanics of fluids, 168.
Broadbent, D. & Jánossy, L. Extensive penetrating cosmic ray showers, 517.

Cassels, J. M., Dainty, J., Feather, N. & Green, L. L. Attempts to detect the emission of secondary charged particles in the fission of $^{235}$U by slow neutrons, 428.
Champion, F. C. & Roy, R. R. The ejection of protons from nitrogen on bombardment with $\alpha$-particles of short range, 269.
Connexion between the criterion of yield and the strain ratio relationship in plastic solids (Taylor), 441.
Conway, A. W. Application of quaternions to rotations in hyperbolic space of four dimensions, 137.

Dainty, J. See Cassels, Dainty, Feather & Green.
Davidson, E. See Boyes-Watson, Davidson & Perutz.
Davidson, P. M. The interaction of radiation and matter, 542.
Davis, R. & Standring, W. G. Discharge currents associated with kite balloons, 304.
Discharge currents associated with kite balloons (Davis & Standring), 304.

Egerton, Sir Alfred & Minkoff, G. J. The formation of hydrogen peroxide in the combustion of hydrogen at low pressures, 145.
Ejection of protons from nitrogen on bombardment with $\alpha$-particles of short range (Champion & Roy), 269.
Electron-diffraction study of the heating of straight-chain organic films and its application to lubrication (Brummage), 243.
Eliezer, C. Jayaratnam. Quantum electrodynamics and low-energy photons, 133.
Ellison, M. A. See Atkins & Ellison.
Extensive penetrating cosmic-ray showers (Broadbent & Jánossy), 517.
Index

Feather, N. See Cassels, Dainty, Feather & Green.
First order wave equations for elementary particles without subsidiary conditions (Wild), 253.
Formation of hydrogen peroxide in the combustion of hydrogen at low pressures (Egerton & Minkoff), 145.
Fröhlich, H., Kun Huang & Sneddon, I. N. The binding energies of very light nuclei, 61.

General kinetic theory of liquids. IV. Quantum mechanics of fluids (Born & Green), 168.
Green, H. S. See Born & Green.
Green, L. L. See Cassels, Dainty, Feather & Green.

Hall, T. A. & Tsao, P. H. He\(^+\) transfer at low temperatures between tube walls and gases in turbulent flow, 6.
Heat transfer at low temperatures between tube walls and gases in turbulent flow (Hall & Tsao), 6.
Hill, R., Lee, E. H. & Tupper, S. J. The theory of combined plastic and elastic deformation with particular reference to a thick tube under internal pressure, 278.
Hill, R. & Pack, D. C. An investigation, by the method of characteristics, of the lateral expansion of the gases behind a detonating slab of explosive, 524.

Initial stages of explosion in nitroglycerine (Mulcahy & Vines), 210.
Interaction of radiation and matter (Davidson), 542.
Interference microscopy (Merton), 1.
Interference studies of diamond faces. A crossed-fringe technique (Tolansky & Wilcock), 182.
Investigation, by the method of characteristics, of the lateral expansion of the gases behind a detonating slab of explosive (Hill & Pack), 524.

Jánossy, L. See Broadbent & Jánossy.

Kun Huang. See Fröhlich, Kun Huang & Sneddon.

Lighthill, M. J. The hodograph transformation in trans-sonic flow. I. Symmetrical channels, 323.
Lighthill, M. J. The hodograph transformation in trans-sonic flow. II. Auxiliary theorems on the hypergeometric functions \(y_{\alpha}(r)\), 341.

Malan, D. J. & Schonland, B. F. J. Progressive lightning. VII. Directly-correlated photographic and electrical studies of lightning from near thunderstorms, 485.
Merton, Sir Thomas. On interference microscopy, 1.
Methaemoglobin, X-ray study (Boyes-Watson, Davidson & Perutz), 83.
Method of the hypercircle in function-space for boundary-value problems (Synge), 447.
Minkoff, G. J. See Egerton & Minkoff.
Index

Mulcahy, M. F. R. & Vines, R. G. The propagation of detonation in thin layers of nitro-
glycerine, 226.

Note on a problem of Mahler (Rogers), 503.

Perutz, M. F. See Boyes-Watson, Davidson & Perutz.
Photoelectric measurements of the seasonal variations in daylight at Plymouth, from
1938 to March 1941, compared with the years 1930 to 1937 (Atkins & Ellison),
467.
Pippard, A. B. The surface impedance of superconductors and normal metals at high
frequencies. I. Resistance of superconducting tin and mercury at 1200 Mve./sec.,
370.
Pippard, A. B. The surface impedance of superconductors and normal metals at high
frequencies. II. The anomalous skin effect in normal metals, 385.
Pippard, A. B. The surface impedance of superconductors and normal metals at high
frequencies. III. The relation between impedance and superconducting penetration
depth, 399.
Price, W. C. & Walsh, A. D. The absorption spectra of benzene derivatives in the vacuum
ultra-violet. I, 22.
Progressive lightning. VII. Directly correlated photographic and electrical studies of
lightning from near thunderstorms (Malan & Schonland), 485.
Propagation of detonation in thin layers of nitroglycerine (Mulcahy & Vines), 226.

Quantum electrodynamics and low-energy photons (Eliezer), 133.

Rogers, C. A. A note on a problem of Mahler, 503.

Scattering of fast neutrons by protons (Ramsey), 195.
Schonland, B. F. J. See Malan & Schonland.
Sneddon, I. N. See Fröhlich, Kun Huang & Sneddon.
Standing, W. G. See Davis & Standing.
Surface impedance of superconductors and normal metals at high frequencies, I, II & III
Pippard), 370, 385, 399.
Synge, J. L. The method of the hypercircle in function-space for boundary-value problems,
447.

Taylor, Sir Geoffrey. A connexion between the criterion of yield and the strain-ratio
relationship in plastic solids, 441.
Theory of combined plastic and elastic deformation with particular reference to a thick
tube under internal pressure (Hill, Lee & Tupper), 278.
Tolansky, S. & Wilcock, W. L. Interference studies of diamond faces. A crossed-fringe
technique, 182.
Tsao, P. H. See Hall & Tsao.
Vines, R. G. See Mulcahy & Vines.

Walsh, A. D. See Price & Walsh.
Walsh, A. D. The absorption spectra of benzene derivatives in the vacuum ultra-violet, II, 32.

Wilcock, W. L. See Tolansky & Wilcock.
Wild, E. On first order wave equations for elementary particles without subsidiary conditions, 253.

X-ray study of horse methaemoglobin, I (Boyces-Watson, Davidson & Perutz), 83.