

INDEX TO VOLUME 296 (A)

- Address of the President 1966 (Blackett), v.
- Amster, R. L. & Porter, G. Solvate and dimer equilibria in solutions of chlorophyll, 38.
- Association of oxygen atoms and their combination with nitrogen atoms (Campbell & Thrush), 222.
- Bahrani, A. S., Black, T. J. & Crossland, B. The mechanics of wave formation in explosive welding, 123.
- Bastin, J. A. & Gear, A. E. Observations in the wavelength range 1 to 3 mm (discussion), 348.
- Black, T. J. *See* Bahrani, Black & Crossland.
- Blackett, P. M. S. Presidential Address, 1966.
- Bowers, P. G. & Porter, G. Quantum yields of triplet formation in solutions of chlorophyll, 435.
- Boyd, R. L. F. & Boylett, F. D. A. Ion and electron energy distribution in the hydrogen discharge, 233.
- Boylett, F. D. A. *See* Boyd & Boylett.
- Campbell, I. M. & Thrush, B. A. The association of oxygen atoms and their combination with nitrogen atoms, 222.
- Campbell, I. M. & Thrush, B. A. The recombination of nitrogen atoms and the nitrogen afterglow, 201.
- Carabine, M. D. & Norrish, R. G. W. The oxidation of diborane, 1.
- Chamberlain, A. C. Transport of *Lycopodium* spores and other small particles to rough surfaces, 45.
- Clarke, J. F. The laminar diffusion flame in Oseen flow: the stoichiometric Burke-Schumann flame and frozen flow, 519.
- Convection in the Moon and the existence of a lunar core (discussion) (Runcorn), 270.
- Cracknell, Margaret F. (née Grant) & Wilson, G. V. H. The determination of hyperfine interaction fields in neutron irradiated cobalt by nuclear orientation techniques, 71.
- Crossland, B. *See* Bahrani, Black & Crossland.
- Cyclotron resonance in copper by a calorimetric method (Smith), 476.
- Determination of hyperfine interaction fields in neutron irradiated cobalt by nuclear orientation techniques (Cracknell & Wilson), 71.
- Differences in the Moon's moments of inertia (discussion) (Kozieł), 248.
- Discussion on the physics of the Moon and its environment (Massey, Gold, Runcorn and others), 245.
- Dixon, R. N., Duxbury, G. & Ramsay, D. A. Rotational analysis of the 0-0 band of the ${}^2A_1-{}^2B_1$ electronic transition of PH_2 , 137.
- Dobbs, E. R. *See* Perz & Dobbs.
- Doniach, S. & Wohlfarth, E. P. Theory of the magnetic properties of dilute palladium-iron alloys, 442.
- Durney, B. R. & Roxburgh, I. W. Rotating massive stars in general relativity, 189.
- Duxbury, G. *See* Dixon, Duxbury & Ramsay.
- Dynamical capture of the Moon by the Earth (discussion) (Lyttleton), 285.
- Dynamics of the Moon (discussion) (Jeffreys), 245.
- Electrical conductivity of the Moon's interior (discussion) (Tozer & Wilson), 326.
- Electron correlations in narrow energy bands. V. A perturbation expansion about the atomic limit (Hubbard), 82.

- Electron correlations in narrow energy bands. VI. The connexion with many-body perturbation theory (Hubbard), 100.
- Elliott, R. J. & Taylor, D. W. Vibrations of random dilute alloys, 161.
- Evidence from the surface configuration of the Moon on its dynamical evolution (discussion) (MacDonald), 298.
- Frost, D. C., McDowell, C. A. & Vroon, D. A. Photoelectron kinetic energy analysis in gases by means of a spherical analyser, 566.
- Geake, J. E. & Walker, G. Laboratory investigations of meteorite luminescence (discussion), 337.
- Gear, A. E. *See* Bastin & Gear.
- Gerstenkorn, H. The importance of tidal friction for the early history of the Moon (discussion), 293.
- Golding, R. M. *See* de Lisle & Golding.
- Grainger, J. F. & Ring, J. Techniques of observation of lunar luminescence (discussion), 330.
- Hubbard, J. Electron correlations in narrow energy bands. V. A perturbation expansion about the atomic limit, 82.
- Hubbard, J. Electron correlations in narrow energy bands. VI. The connexion with many-body perturbation theory, 100.
- Hurle, D. T. J., Jakeman, E. & Pike, R. E. On the solution of the Bénard problem with boundaries of finite conductivity, 469.
- Importance of tidal friction for the early history of the Moon (discussion) (Gerstenkorn), 293
- Infrared evidence of differential surface processes on the Moon [Abstract] (discussion) (Murray), 347.
- Investigation of the surfaces of the Moon and planets by means of thermal radiation (discussion) (Troitsky), 366.
- Ion and electron energy distribution in the hydrogen discharge (Boyd & Boylett), 233.
- Isotope shifts in medium-heavy elements (King, Kuhn & Stacey), 24.
- Jakeman, E. *See* Hurle, Jakeman & Pike.
- Jeffreys, Sir Harold. Dynamics of the Moon (discussion), 245.
- Jennison, R. C. Observational evidence of the meteoritic bombardment (discussion), 316.
- King, W. H., Kuhn, H. G. & Stacey, D. N. Isotope shifts in medium-heavy elements, 24.
- Kopal, Z. The shape of the Moon, its internal structure and moments of inertia (discussion), 254.
- Kozieł, K. Differences in the Moon's moments of inertia (discussion), 248.
- Kuhn, H. G. *See* King, Kuhn & Stacey.
- Kuiper, G. P. The lunar surface and the U.S. Ranger programme (discussion), 399.
- Laminar diffusion flame in Oseen flow: the stoichiometric Burke–Schumann flame and frozen flow (Clarke), 519.
- Levin, B. J. Thermal effects on the figure of the Moon (discussion), 266.
- de Lisle, J. M. & Golding, R. M. A theoretical investigation of the temperature dependence of the magnetic moment at the ${}^6A_1-{}^2T_2$ crossover of iron (III) complexes, 457.
- Lunar surface and the U.S. Ranger Programme (discussion) (Kuiper), 399.
- Lyttleton, R. A. Dynamical capture of the Moon by the Earth (discussion), 285.

- MacDonald, G. J. F. Evidence from the surface configuration of the Moon on its dynamical evolution (discussion), 298.
- McDowell, C. A. *See* Frost, McDowell & Vroom.
- Markov, A. V. On the relative depths of the Moon's mountain rings and craters in the region of Mare Nubium (discussion), 432.
- Measurements of lunar radio brightness distribution and certain properties of its surface layer (discussion) (Salomonovich), 354.
- Mechanics of wave formation in explosive welding (Bahrani, Black & Crossland), 137.
- Meteoritic environment of the Moon (discussion) (Whipple), 304.
- Microwave ultrasonic studies in a highly coupled superconductor (Perz & Dobbs), 113.
- Murray, B. C. Infrared evidence of differential surface processes on the Moon [Abstract] (discussion), 347.
- Norrish, R. G. W. *See* Carabine & Norrish.
- Observational evidence of the meteoritic bombardment (discussion) (Jennison), 316.
- Observations in wavelength range 1 to 3 mm (discussion) (Bastin & Gear), 348.
- Oxidation of diborane (Carabine & Norrish), 1.
- Perz, J. M. & Dobbs, E. R. Microwave ultrasonic studies in a highly coupled superconductor, 113.
- Photoelectron kinetic energy analysis in gases by means of a spherical analyser (Frost, McDowell & Vroom), 566.
- Pike, E. R. *See* Hurle, Jakeman & Pike.
- Porter, G. *See* Amster & Porter; *also* Bowers & Porter.
- Presidential Address, 1966 (Blackett).
- Propagation of high frequency, finite acceleration pulses and shocks in viscoelastic materials (Varley & Rogers), 498.
- Quantum yields of triplet formation in solutions of chlorophyll (Bowers & Porter), 435.
- Ramsay, D. A. *See* Dixon, Duxbury & Ramsay.
- Recombination of nitrogen atoms and the nitrogen afterglow (Campbell & Thrush), 201.
- Relative depths of the Moon's mountain rings and craters in the region of the Mare Nubium (discussion) (Markov), 432.
- Ring, J. *See* Grainger & Ring.
- Rogers, T. G. *See* Varley & Rogers.
- Rotating massive stars in general relativity (Durney & Roxburgh), 189.
- Rotational analysis of the 0-0 band of the ${}^2A_1-{}^2B_1$ electronic transition of PH_2 (Dixon, Duxbury & Ramsay), 137.
- Roxburgh, I. W. *See* Durney & Roxburgh.
- Runcorn, S. K. Convection in the Moon and the existence of a lunar core (discussion), 270.
- Salomonovich, A. E. Measurements of lunar radio brightness distribution and certain properties of its surface layer (discussion), 354.
- Shape of the Moon, its internal structure and moments of inertia (discussion) (Kopal), 254.
- Smith, D. A. Cyclotron resonance in copper by a calorimetric method, 476.
- Solution of the Bénard problem with boundaries of finite conductivity (Hurle, Jakeman & Pike), 469.
- Solvate and dimer equilibria in solutions of chlorophyll (Amster & Porter), 38.
- Stacey, D. N. *See* King, Kuhn & Stacey.
- Structure of flame quenched by cold surfaces (Tewari & Weinberg), 546.
- Study of the Ranger pictures of the Moon (discussion) (Urey), 418.

- Taylor, D. W. *See* Elliott & Taylor.
- Techniques of the observation of lunar luminescence (discussion) (Grainger & Ring), 337.
- Tewari, G. P. & Weinberg, F. J. Structure of flame quenched by cold surfaces, 546.
- Theoretical investigation of the temperature dependence of the magnetic moment at the ${}^6A_1-{}^2T_2$ crossover of iron (III) complexes (de Lisle & Golding), 457.
- Theory of the magnetic properties of dilute palladium-iron alloys (Doniach & Wohlfarth), 442.
- Thermal effects on the figure of the Moon (discussion) (Levin), 266.
- Thrush, B. A. *See* Campbell & Thrush.
- Tozer, D. C. & Wilson, J. The electrical conductivity of the Moon's interior (discussion), 326.
- Transport of *Lycopodium* spores and other small particles to rough surfaces (Chamberlain), 45.
- Troitsky, V. S. Investigation of the surfaces of the Moon and planets by means of thermal radiation (discussion), 366.
- Urey, H. C. Study of the Ranger pictures of the Moon (discussion), 418.
- Varley, E. & Rogers, T. G. The propagation of high frequency, finite acceleration pulses and shocks in viscoelastic materials, 498.
- Vibrations of random dilute alloys (Elliott & Taylor), 161.
- Vroom, D. A. *See* Frost, McDowell & Vroom.
- Walker, G. *See* Geake & Walker.
- Weinberg, F. J. *See* Tewari & Weinberg.
- Whipple, F. L. The meteoritic environment of the Moon (discussion), 304.
- Wilson, G. V. H. *See* Cracknell & Wilson.
- Wilson, J. *See* Tozer & Wilson.
- Wohlfarth, E. P. *See* Doniach & Wohlfarth.