

INDEX

	PAGE		PAGE
Alloy, silver-gold, change in colour on plastic deformation	40	Carman, E. H., Gibson-Wilde, B. C., and Conway, R. J.—	
Arc, electric, silent and hissing d.c.	228	Anomalous VHF trans-equa- torial ionospheric propagation recorded at Townsville	171
Auroras: directions of auroral rays	32, 520	Carter, A. W. L.—	
Auroras, distribution in the south- ern hemisphere. III. Comparison with the northern hemisphere ..	514	See Hindman, J. V.	552
Balfe, J. D.—		Chain, almost linear, a quantum mechanical correction to the statistics of	314
Moon camera values of $\Delta T =$ $ET - UT$	279	Chain, almost linear, thermal ex- pansion	193
Beard, M.—		Charge, influence on a charged particle flux	464
See Hindman, J. V.	552	Cole, K. D.—	
Bond, F. R., and Jacka, F.—		Eccentric dipole coordinates ..	423
Distribution of auroras in the southern hemisphere. III. Com- parison with the northern hemi- sphere	514	The directions of auroral rays ..	32
Bosworth, R. C. L., Groden, C. M., and Weckslar, O. S.—		The directions of auroral rays. II. Methods of determination ..	520
Damped waves associated with thermal convection	353	Collision, n -particle, the number of independent variables for ..	586
Brennan, M. H., Lehane, J. A., .. Millar, D. D., and Watson- Munro, C. N.,—		Concentration, fluctuating, damp- ing by continuous sampling through a tube	454
The design and characteristics of highly ionized hydrogenous lab- oratory plasma sources ..	340	Convection, thermal, damped waves associated with	353
Bruce, C. F.—		Conway, R. J.—	
See Hill, R. M.	282	See Carman, E. H.	171
Burton, C. H., Lasich, W. B., Noon, J. H., and Parsons, R. W.—		Coordinates, eccentric dipole ..	423
The refractive index of methyl chloride at 10 Gc/s	434	Cunningham, J.—	
Carbon: analysis of overlapping resonances in proton-carbon scattering	370	The number of independent var- iables for an n -particle collision	586
		Davies, B., and Delves, L. M.—	
		An exactly soluble two-body problem with non-central forces	311
		Deformation, plastic, change in colour of a silver-gold alloy on	40
		Delves, L. M.—	
		See Davies, B.	311

	PAGE		PAGE
Diffusion, ambipolar, in meteor trails	500	Francey, J. L. A.—	
Diffusion coefficients, determination from observations on grenade glow clouds	490	Ambipolar diffusion in meteor trails	500
Dispersal during laminar flow in tubes, theory of	287, 300	Galaxies, radio emission from normal	360
Dowden, R. L.—		Galaxy: observations of galactic radiation at 47 Mc/s	545
Polarization measurements of Jupiter radio bursts at 10.1 Mc/s	398	Galaxy: on the existence of an ionized layer about the galactic plane	1
Eather, R. H.—		Gas, ionized, transport properties of a fully, with application to a radially constricted gas discharge	216
The silent and hissing d.c. electric arc	228	Gibson-Wilde, B. C.—	
Electron energy loss at collision in current-maintained plasmas ..	430	See Carman, E. H.	171
Electrons, drift velocity in hydrogen and nitrogen	115	Goniometer, three-circle, analytical treatment of the geometrical properties of	272
Electrons, drift velocity in water vapour	447	Green, R. J.—	
Ellis, G. R. A.—		See Ellis, G. R. A.	545
The F_2 component of cosmic radio noise absorption	411	Groden, C. M.—	
The radio emissions from Jupiter and the density of Jovian exosphere	74	See Bosworth, R. C. L.	353
See also Hoyle, F.	1	Hamilton, P. A.—	
Ellis, G. R. A., and McCulloch, P. M.—		See Ellis, G. R. A.	545
The decametric radio emissions of Jupiter	380	Heat, specific, of metals between 1200 and 2400°K	47
Ellis, G. R. A., Green, R. J., and Hamilton, P. A.—		Helium, angular distribution of 1.79 MeV neutrons scattered from	185
Observations of galactic radiation at 47 Mc/s	545	Helium, equilibrium models of stars composed of pure	68
Expansion, thermal, of an almost linear chain	193	Helium II, theory of	323
Explosion, nuclear, over Johnston Island on July 9, 1962, swept-frequency radio observations at the time of the	584	Hill, R. M., and Bruce, C. F.—	
Fitzgerald, L. M.—		Correction to the paper "Precision in a scanning interferometer"	282
Wind-induced stresses on water surfaces	475	Hindman, J. V., Kerr, F. J., and McGee, R. X.—	
		A low resolution hydrogen-line survey of the Magellanic System. II. Interpretation of results ..	570

- | | PAGE | | PAGE |
|---|------|---|----------|
| Hindman, J. V., McGee, R. X.,
Carter, A. W. L., Holmes, E.
C. J., and Beard, M.—
A low resolution hydrogen-line
survey of the Magellanic System.
I. Observations and digital reduc-
tion procedures | 552 | Kerr, F. J.—
See Hindman, J. V. | 570 |
| Holmes, E. C. J.—
See Hindman, J. V. | 552 | Krishnan, T.—
See Mullaly, R. F. | 8 |
| Hoyle, F., and Ellis, G. R. A.—
On the existence of an ionized
layer about the galactic plane .. | 1 | Kundu, S. K.—
On nucleon magnetic moments | 108 |
| Hydrogen, drift velocity of elec-
trons in | 115 | Lasich, W. B.—
See Burton, C. H. | 434 |
| Hydrogen, neutral, sky survey of,
at λ 21 cm | 136 | Lehane, J. A.—
See Brennan, M. H. | 340 |
| Interferometer: correction to the
paper "Precision in a scanning
interferometer" | 282 | Leslie, R. T.—
See Thwaite, E. G. | 82 |
| Interferometry, microwave, for
plasma studies | 439 | Lloyd, K. H.—
See Johnson, E. R. | 490 |
| Ionosphere: anomalous VHF trans-
equatorial ionospheric propaga-
tion | 171 | Lloyd, P., and O'Dwyer, J. J.—
A quantum mechanical correc-
tion to the statistics of the almost
one-dimensional chain | 314 |
| Ionosphere: F_2 component of cos-
mic radio noise absorption .. | 411 | The thermal expansion of an
almost linear chain | 193 |
| Ionosphere: reflection coefficient
of the night-time F region .. | 203 | Lowenthal, G. C.—
The specific heat of metals be-
tween 1200°K and 2400°K .. | 47 |
| Jacka, F.—
See Bond, F. R. | 514 | Lowke, J. J.—
The drift velocity of electrons in
hydrogen and nitrogen | 115 |
| Johnson, E. R., and Lloyd, K. H.—
Determination of diffusion co-
efficients from observations on
grenade glow clouds | 490 | Lowke, J. J. and Rees, J. A.—
The drift velocity of free and
attached electrons in water
vapour | 447 |
| Joice, J.—
See Sheridan, K. V. | 584 | McCulloch, P. M.—
See Ellis, G. R. A. | 380 |
| Jupiter, decametric radio emissions
of | 380 | McGee, R. X.—
See Hindman, J. V. | 552, 570 |
| Jupiter, radio emissions from, and
the density of Jovian exosphere | 74 | McGee, R. X., Murray, J. D., and
Milton, Janice A.—
A sky survey of neutral hydrogen
at λ 21 cm. II. The detailed dis-
tribution of low velocity gas .. | 136 |
| Jupiter radio bursts, polarization
measurements at 10.1 Mc/s .. | 398 | McGilvray, J. P.—
The reflection coefficient of the
night-time ionospheric F region | 203 |

	PAGE		PAGE
Macleod, D. B.—		Noon, J. H.—	
A theory of helium II.	323	<i>See</i> Burton, C. H.	434
McNicol, R. W. E., and Mainstone, J. S.—		Nucleon magnetic moments	108
General characteristics of pc- type pulsations	507	O'Dwyer, J. J.—	
Magellanic Clouds: low resolution hydrogen-line survey of the Mag- ellanic System	552, 570	<i>See</i> Lloyd, P.	193, 314
Mainstone, J. S.—		Ohlsen, G. G.—	
<i>See</i> McNicol, R. W. E.	507	<i>See</i> Young, P. G.	185
Mathewson, D. S., and Rome, J. M.—		Okhuysen, P. L.—	
Observations of radio emission from normal galaxies	360	<i>See</i> Young, P. G.	185
Meggitt, S.—		Parsons, R. W.—	
<i>See</i> Van der Borcht, R.	68, 415	<i>See</i> Burton, C. H.	434
Metals, specific heat of, between 1200 and 2400°K	47	Philip, J. R.—	
Meteor trails, ambipolar diffusion in	500	The damping of a fluctuating concentration by continuous sampling through a tube	454
Methyl chloride, refractive index at 10 Gc/s	434	The theory of dispersal during laminar flow in tubes. I. . . .	287
Millar, D. D.—		The theory of dispersal during laminar flow in tubes. II. . . .	300
<i>See</i> Brennan, M. H.	340	Plasma sources, design and charac- teristics of highly ionized hydro- genous laboratory	340
Milton, Janice A.—		Plasma studies, microwave inter- ferometry for	439
<i>See</i> McGee, R. X.	136	Plasmas, electron, energy loss at collision in current-maintained .	430
Moon: properties of the lunar sur- face as revealed by thermal radi- ation	24	Protons: analysis of overlapping resonances in proton-carbon scattering	370
Mullaly, R. F., and Krishnan, T.—		Pulsations, geomagnetic, general characteristics of pc-type . . .	507
Solar decimetre radio bursts . .	8		
Muncey, R. W.—		Radiation, cosmic radio, emission from normal galaxies	360
Properties of the lunar surface as revealed by thermal radiation .	24	Radiation, cosmic radio: F_2 com- ponent of cosmic radio noise absorption	411
Murray, J. D.—		Radiation, cosmic radio: low res- olution hydrogen-line survey of the Magellanic System	552, 570
<i>See</i> McGee, R. X.	136		
Neutrons, 1.79 MeV, angular dis- tribution of, scattered from helium	185		
Nitrogen, drift velocity of electrons in	115		

	PAGE		PAGE
Radiation, cosmic radio: observations of galactic radiation at 4.7 Mc/s	545	Seymour, P. W.—	
Radiation, cosmic radio: on the existence of an ionized layer about the galactic plane ..	1	Remarks on the transport-properties of a fully ionized gas with application to a radially constricted gas discharge ..	216
Radiation, cosmic radio: sky survey of neutral hydrogen at λ 21 cm	136	Sharp, L. E.—	
Radio bursts, solar decimetre ..	8	See Robinson, L. C.	439
Radio bursts, type II solar, positions and movements of sources of	240	Sheridan, K. V., and Joisce, J.—	
Radio bursts, type IV solar, at metre wavelengths	526	Swept-frequency radio observations at the time of the nuclear explosion over Johnston Island on July 9, 1962	584
Radio observations, swept-frequency, at the time of the nuclear explosion over Johnston Island on July 9, 1962	584	Somerville, J. M.—	
Rees, J. A.—		Electron energy loss at collision in current-maintained plasmas	430
See Lowke, J. J.	447	Stars, equilibrium models of, composed of pure helium	68
Refractive index of methyl chloride at 10 Gc/s	434	Stars, massive, with uniform composition	415
Robinson, L. C., and Sharp, L. E.—		Stresses, wind-induced, on water surfaces	475
Microwave interferometry for plasma studies	439	Sun: positions and movements of the sources of solar radio bursts of spectral type II.	240
Robson, D., and Toutenhoofd, W.—		Sun: solar decimetre radio bursts	8
Analysis of overlapping resonances in proton-carbon scattering	370	Sun: type IV solar radio bursts at metre wavelengths	526
Rome, J. M.—		Swan, P.—	
See Mathewson, D. S.	360	On the accuracy of the $\tan \eta_l$ distorted wave approximation for scattering phase shifts ..	177
Sabine, T. M.—			
An analytical treatment of the geometrical properties of the three-circle goniometer ..	272	Telford, J.—	
Scales, linear, calibration by the method of Hansen-Pérard ..	82	The influence of a charge on a charged particle flux	464
Scattering, analysis of overlapping resonances in proton-carbon ..	370	Thwaite, E. G., and Leslie, R. T.—	
Scattering, particles: accuracy of the $\tan \eta_l$ distorted wave approximation for scattering phase shifts	177	The calibration of linear scales by the method of Hansen-Pérard	82
		Time: moon camera values of $\Delta T = ET - UT$	279
		Toutenhoofd, W.—	
		See Robson, D.	370
		Two-body problem with non-central forces	311

	PAGE		PAGE
Van der Borcht, R., and Meggitt, S.—		Weiss, A. A.—	
Equilibrium models of stars composed of pure helium ..	68	The positions and movements of the sources of solar radio bursts of spectral type II. ..	240
Massive stars with uniform composition	415	The type IV solar radio burst at metre wavelengths	526
Water surfaces, wind-induced stresses on	475	Yates, E. L.—	
Water vapour, drift velocity of electrons in	447	The change in colour of a silver-gold alloy on plastic deformation	40
Watson-Munro, C. N.—		Young, P. G., Ohlsen, G. G., and Okhuysen, P. L.—	
See Brennan, M. H.	340	The angular distribution of 1.79 MeV neutrons scattered from helium	185
Wecksler, O. S.—			
See Bosworth, R. C. L.	353		

