INDEX

TO THE

PHILOSOPHICAL TRANSACTIONS

FOR THE YEAR 1880.

A.

Abel (F. A.) and Noble (Captain) (see Noble).

Abney (W. de W.). The Bakerian Lecture. On the Photographic Method of Mapping the least
Refrangible End of the Solar Spectrum, 653.
Aluminium, revision of the atomic weight of, 1003.
Anemometer, determination of the constants of a cup, 1055 (see Robinson).
Avston (W. E.) and Perry (J.). The Contact Theory of Voltaic Action.—No. III., 15.

B.

Bakerian Lecture (see Abney).

Battery, voltaic, potential of a, deduced from the differences of potential of its constituent parts, 15.
Brain, comparative structure of, in different animals, 35 (see Lewis).

C.

Cayley (A.). A Memoir on the Single and Double Theta-Functions, 897.—Introduction, 898; the single
theta-functions, 911; the double theta-functions, 934.

Clarke (L.), potential of his standard cell, 25.
Clarke (G. S.) and McLeod (H.) (see McLeod).
Coal-Measures, fossil plants of, 493 (see Williamson).

MDCCCLXXX.
INDEX.

D.


DE LA RUE (W.) and MÜLLER (H. W.). Experimental Researches on the Electric Discharge with the Chloride of Silver Battery, 65 (for index see p. 115).

Double refraction in Iceland spar, 421 (see GLAZEBROOK).

Dynamo-electric current, on the, 1071 (see SIEMENS).

E.

Electric discharge, 65 (see DE LA RUE).

Electric discharges in vacuum tubes, 561 (see SPOTTISWOODE).

Ellipsoids of revolution, conduction of heat in, 117.

ELLIS (W. E.). On the Relation between the Diurnal Range of Magnetic Declination and Horizontal Force, as observed at the Royal Observatory, Greenwich, during the Years 1841 to 1877, and the Period of Solar Spot Frequency, 541.

English reproduction table (see FARR).

F.

FARR (W.). English Reproduction Table, 231.

Ferns in coal-measures, 505 (see WILLIAMSON).


G.

GILBERT (J. H.) and LAWES (J. B.) (see LAWES).

GLAZEBROOK (R. T.). Double Refraction and Dispersion in Iceland Spar, 421.

Greenwich magnetic observations, conclusions from (see ELLIS).

Guncrass, products of explosion of fired, 203 (see NOBLE).

H.

Heat, conduction of, in ellipsoids of revolution, 117.

HICKS (W. M.). On the Motion of Two Spheres in a Fluid, 455.


Hydrogen, lines presumably of, in stars, 678.

Hyposulphite of potassium, question of the formation of, in explosion of gunpowder, 209, 277.

I.

Images, application of method of, to motion of two spheres in a fluid, 455.
INDEX.

L.

Lawes (J. B.) and Gilbert (J. H.). Agricultural, Botanical, and Chemical results of Experiments on the Mixed Herbage of Permanent Meadow, conducted for more than Twenty Years in succession on the Same Land.—Part I. Agricultural results, 289 (for the contents see p. 416).

Lewis (W. B.). Researches on the Comparative Structure of the Cortex Cerebri, 35.—Brain of the pig, 35; of the sheep, 47; of the cat, 51; relative area of five-laminated cortex in different animals, 55; divergence in types of ganglionic cell, 58; summary, 61.

Light, electromagnetic theory of, 691 (see Fitzgerald).

Lizard, gigantic, from Australia, 1037.

M.

Magnetic elements, relation between diurnal range of, and sun spots, 541 (see Ellis).

Mallet (J. W.). Revision of the Atomic Weight of Aluminium, 1003.

Manures, effects of (see Lawes).

McLeod (H.) and Clarke (G. S.). On the Determination of the Rate of Vibration of Tuning-Forks, 1.

Meduseæ, 161 (see Romanes).

Megalania prisca, 1037.

Moelton (J. E.) and Spottiswoode (W.) (see Spottiswoode).

Müller (H. W.) and De la Rue (W.) (see De la Rue).

N.


Noble (W.) and Abel (F. A.). Researches on Explosives.—No. II. Fired Gunpowder, 203 (for contents see p. 203).

O.

Owen (R.). Description of some Remains of the Gigantic Land-Lizard (Megalania prisca, Owen) from Australia, 1037.

P.

Paraffines, substances produced from, 451.

Perry (J.) and Ayrton (W. E.) (see Ayrton).

Phosphorescence in vacuum tubes, 580 (see Spottiswoode).

Photographic preparation suitable to receiving impressions from the infra-red, 655.

Potential of voltaic battery, 15 (see Ayrton); required for a discharge in gas, 65 (see De la Rue).

Prout’s law, bearing of revision of atomic weight of aluminium on, 1033.

R.

Radiolarian, supposed (see Williamson).


Romanes (G. J.). Concluding Observations on the Locomotor System of Medusa, 161.—Stimulation, 162; section, 190; general summary, 196; literature, 198.

Ross (Earl of). On some recent Improvements made in the Mountings of the Telescopes at Birr Castle, 153.
INDEX.

S.

Satellite, secular changes in the elements of the orbit of a, revolving about a tidally distorted planet (see Darwin).


Spectra of stars, 669 (see Huggins).

Spectrum, photographic method of mapping the least refrangible end of the solar, 653.

Spheres, motion of two, in a fluid, 455 (see Hicks).

Spottiswoode (W.) and Moulton (J. F.). On the Sensitive State of Vacuum Discharges.—Part II., 561 (for contents see p. 561).

Stars, description of the photographic spectra of, 677.

Sun spots, relation of, to magnetic disturbances (see Ellis).

T.

Telescopes, mountings of large, 153.

Thermopographs, discussed, of Lamansky, 663; of Herschel, 664.

Theta-functions, memoir on, 897 (see Cayley).

Tuning-forks, determination of the rate of vibration of, 1.

U.

Ulodendron, 499.

V.

Vogel (H. C.). Examination of his Results as to the Action of Dyes on a Sensitive Collodion Film, 653.

Voltaic action, contact theory of, 15.

W.


LONDON:

PRINTED BY HARRISON AND SONS, ST. MARTIN’S LANE.