INDEX

TO THE

PHILOSOPHICAL TRANSACTIONS

FOR THE YEAR 1884.

A.

ABNEY (W. de W.) and SCHUSTER (A.). On the Total Solar Eclipse of May 17, 1882, 253.—Intro-
ductive, preparations, &c., 253; results obtained, 258; conclusion, 270.

ABNEY (W. E.) and HARTLEY (W. N.) (see HARTLEY).

Ammonias, compound, physiological action of, compared, 200.

B.

BOWER (F. G.). On the Comparative Morphology of the Leaf in the Vascular Cryptogams and
Gymnosperms, 565.—Osmundaceae, 575; Marattiaceae, 579; Cycadaceae, 583; Gnetaceae, 597;
conclusion, 601; description of figures, 612.

Brain of monkeys, experiments on effect of lesions of, 479 (see FERRIER).

BRUNTON (T. L.) and CASH (J. T.). Contributions to our knowledge of the connexion between Chemical
Constitution, Physiological Action, and Antagonism, 197.—Action of alkali and acid on muscle, 231;
explanation of plates, 239.

C.

Camphor, vapour pressure of volatilizing, 44.

Carbonic oxide and oxygen, non-inflammability of a dry mixture of, 641.

CASH (J. T.) and BRUNTON (T. L.) (see BRUNTON).

Cerebral hemispheres, effect of lesions of, 479 (see FERRIER).

Chemical change, conditions of, in gases, 617 (see DIXON).
INDEX.

Chemical constitution, connexion between, and physiological action and antagonism, 197 (see Brunton).
Circulation of air in Kundt's tubes, 1.
Clark cell, electromotive force of, 440 (see Rayleigh).
Comet seen during a total solar eclipse, 261.

D.

Dixon (H. B.). Conditions of Chemical Change in Gases: Hydrogen, Carbonic Oxide, and Oxygen, 617 (for contents see p. 617).
Donaldson (F.) and Howell (W. H.) (see Howell).

E.

Earths, alkaline and other, physiological action of, compared, 223.
Echidna Ramsayi, 273.
Eclipse, observations taken during a total solar, 253 (see Abney).
Electromagnetic field, transfer of energy in, 343.
Elliptic cylinder, potential of, for a particular law of density, 405.
Elliptic space, dynamics of a rigid body in, 281.

F.

Faraday's observations of the phenomena of light particles on a vibrating plate considered in reference to theory, 1.
Ferrier (D.) and Yeo (G. F.). A record of Experiments on the Effects of Lesions of Different Regions of the Cerebral Hemispheres, 479.—Lesions of the angular gyri and occipital lobes, 480; of the temporo-sphenoidal convolutions, 505; of the convolutions bounding the fissure of Rolando, 510; of the frontal lobes, 521; of the hippocampal region, 532.
Fluid, motion of, part of which is moving rotationally and part irrotationally, 363.

H.

Hartley (W. N.). Researches on Spectrum Photography in relation to New Methods of Quantitative Chemical Analysis.—Part I, 49 (for contents see p. 49).
Hartley (W. N.) and Adney (W. E.). Measurements of the Wave-lengths of Lines of High Refrangibility in the Spectra of Elementary Substances, 63.
Heart, maximum volume of blood sent out by, and influence of pressure on the work done by, 139 (see Howell).
Hicks (W. M.). On the Steady Motion and Small Vibrations of a Hollow Vortex, 161 (for contents see p. 161).
Hill (M. J. M.). On the Motion of Fluid, part of which is moving Rotationally and part Irrotationally, 363.
INDEX.

HOWELL (W. H.) and DONALDSON (F.). Experiments upon the Heart of the Dog with reference to the Maximum Volume of Blood sent out by the Left Ventricle in a Single Beat, and the Influence of Variations in Venous Pressure, Arterial Pressure, and Pulse-Rate upon the work done by the Heart, 139.—The maximum quantity of blood which can be thrown out from the left ventricle at a single beat, 143; influence of variations of arterial pressure upon the work done by the heart, 147; influence of venous pressure on the work done by the heart, 151; influence of the rate of beat on the same, 156.

K.

KUNDY'S tubes, explanation of the circulation of air in, 1.

L.

Leaf, comparative morphology of, in the vascular Cryptogams and Gymnosperms, 565 (see Bower).

M.

Magnesium, extraordinary sensitiveness of its photographic spectrum reaction, 327. Muscle, action of acid and alkali on, 231.

N.

Notiosaurus dentatus, 249.

O


P.


R.

RAMSAY (W.) and YOUNG (S.). Influence of Change of Condition from the Liquid to the Solid State on Vapour-Pressure, 461. RAMSAY (W.) and YOUNG (S.). The Influence of Pressure on the Temperature of Volatilization of Solids, 37.
INDEX.

RAYLEIGH (Lord). On the Circulation of Air in Kundt's Tubes, and on some Allied Acoustical Phenomena, 1.

RAYLEIGH (Lord) and SIDGWICK (Mrs. H.). On the Electro-chemical Equivalent of Silver, and on the Absolute Electromotive Force of Clark Cells, 411.—Resulting number for electro-chemical equivalent, 439; electromotive force of Clark (and other) cells, 440; final number for a Clark cell, 452; examination of possible effect of temperature upon the amount of deposited silver, 457; comparison of the E.M.F. of Clark cells with the numbers obtained by others, 460.

S.

Seoparnodon, description of teeth of, 245.

Schuster (A.) and Allen (W. de W.) (see Allen).

Shenstone (W. A.) and Tilden (W. A.) (see Tilden).

Sidgwick (Mrs. H.) and Rayleigh (Lord) (see Rayleigh).

Silver, electro-chemical equivalent of, 411 (see Rayleigh).

Solubility of salts in water at high temperatures, 23.

Spectrum photography, application of, to quantitative chemical analysis, 49, 325.

Sulphate of sodium, anomalies in the solubility of, in water considered, 23.

T.

Taylor (S.), colour phenomena observed by him on liquid films considered, 2.

Theta-functions, double, application of, 317.

Tilden (W. A.) and Shenstone (W. A.). On the Solubility of Salts in Water at High Temperatures, 23.

Tore, motion of a rigid, in irrotationally moving liquid, 172 (see Hicks).

V.

Vapour-pressure, influence on, of a change from the solid to the liquid state of the substance partly evaporated, 461.

Volutization of solids, influence of pressure on the temperature of, 37.

Vortex, motion of a hollow, 179 (see Hicks).

W.

Wave-lengths, measurements of, 63 (see Hartley).

Water, vapour pressure of, in contact with liquid water or with ice, 470.

Y.

Yeo (G. F.) and Ferrier (D.) (see Ferrier).

Young (S.) and Ramsay (W.) (see Ramsay).