INDEX TO VOL. XXXV.

ABNEY (Capt. W. de W.) and Colonel Festing, atmospheric absorption in the infra-red of the solar spectrum, 80.

* * *

the influence of water in the atmosphere on the solar spectrum and solar temperature, 328.

* * *

and A. Schuster on the total solar eclipse of May 17, 1882, 151.

Absorption, atmospheric, in the infra-red of the solar spectrum (Abney and Festing), 80.

* * *

of ultra-violet rays by various substances, notes on the (Liveing and Dewar), 71.

Action of calcium, barium, and potassium on muscle, preliminary note (Bruntun and Cash), 63.

Adeney (W. E.) and W. N. Hartley, measurements of the wave-lengths of rays of high refrangibility in the spectra of elementary substances, 148.

Affinities of Thylacoleo (Owen), 19.

Aleyonarians, on the ciliated groove (siphonoglyph) in the stomodæum of the (Hickson), 280.

Ammonias, substituted, on the molecular weights of. No. 1. Triethylamine (Dewar and Scott), 347.

Anatomy of the Hirudinea (Bourne), 350.

Animals fed and slaughtered as human food; composition of the ash of the entire animals, and of certain separated parts (Lawes and Gilbert), 342.

Apparatus employed at the Kew Observatory for the examination of the dark glasses and mirrors of sextants (Whipple), 42.

Arc, note on the outburst of hydrogen lines when water is dropped into the (Liveing and Dewar), 74.

Arterial pressure, influence of variations in, upon the work done by the heart (Howell and Donaldson), 271.

Arthropoda, on the structure and functions of the eyes of (Lowne), 140.

Ash, composition of the, of some animals fed and slaughtered as human food (Lawes and Gilbert), 342.

Astronomical photography, circular concerning (Pickering), 260.

Atmospheric absorption in the infra-red of the solar spectrum (Abney and Festing), 80.

Atomic weight of glucinium or beryllium (Humphidge), 137.

* * *

(Reynolds), 248.

* * *

reply to a note by Professor J. E. Reynolds (Humphidge), 358.

* * *

of manganese (Dewar and Scott), 44.

Bakerian lecture, on radiant matter spectroscopy (Crookes), 262.

Balfour (Francis Maitland), obituary notice of, xx.

Barium, action of, on muscle, preliminary note (Bruntun and Cash), 63.

Batteries, storage, contribution to the chemistry of (Frankland), 67.

* * *

the effects of temperature on the electromotive force and resistance of (Preece), 48, 250.

Bell (James), contributions to the chemistry of food, 161.

Beryllium (glucinium), on the atomic weight of (Humphidge), 137.

* * *

or glucinium, note on the atomic weight of (Reynolds), 248.

* * *

atomic weight of, reply to a note by Professor J. E. Reynolds (Humphidge), 358.

Bidwell (S.), on the electrical resistance of carbon contacts, 1.

Bile of vertebrates, observations on the colouring matters of (MacMunn), 132.

* * *

of invertebrates, observations on the colouring-matters of the so-called, and on those of the bile of vertebrates (MacMunn), 370.

Bisulphide of carbon, on a hitherto unobserved resemblance between car-

The Royal Society is collaborating with JSTOR to digitize, preserve, and extend access to
Proceedings of the Royal Society of London.
Blood, experiments upon the heart of the dog with reference to the maximum volume of, sent out by the left ventricle in a single beat (Howell and Donaldson), 271.

Blood-corpuscles, coloured, on the action of certain reagents upon. Part I. Newt and frog (Stirling and Rannie), 114.

Boron and silicon, on line spectra of (Hartley), 301.

Bourne (A. G.), contributions to the anatomy of the Hirudinea, 350.

Brachial plexus, note on the motor roots of the (Ferrier), 229.

Brady (H. B.), note on Syringammina, a new type of arenaceous Rhizopoda, 155.

Brunton (T. L.) and T. Cash, contributions to our knowledge of the connexion between chemical constitution, physiological action, and antagonism, 324.

— — on the effect of electrical stimulation of the frog's heart, and its modification by heat, cold, and the action of drugs, 455.

— — preliminary note on the action of calcium, barium, and potassium on muscle, 63.

Calcium, barium, and potassium, preliminary note on the action of, on muscle (Brunton and Cash), 63.

Candidates for election, list of, 66.

— — selected, list of, 178.

Carbohydrates in the animal system, introductory note on the physiology of the (Pavy), 145.

Carbon contacts, on the electrical resistance of (Bidwell), 1.

Carbonic acid, on a hitherto unobserved resemblance between, and bisulphide of carbon (Tyn dall), 129.

Carpenter (P. H.) on a new crinoid from the Southern Sea, 138.

— (W. B.), researches on the Foraminifera. Supplemental memoir. On an abyssal type of the genus Orbitolithes, 276.

Cash (T.) and T. L. Brunton, contributions to our knowledge of the connexion between chemical constitution and physiological action and antagonism, 324.

— — on the effect of electrical stimulation of the frog's heart, and its modification by heat, cold, and the action of drugs, 455.

— — preliminary note on the action of calcium, barium, and potassium on muscle, 63.

— and G. F. Yeo on the variations of latency in certain skeletal muscles of some different animals, 281.

Chemical constitution, contributions to our knowledge of the connexion between, and physiological action and antagonism (Brunton and Cash), 324.

Chemistry of food, contributions to the (Bell), 161.

— of storage batteries, contribution to the (Frankland), 67.

Chloride of silver battery, experimental researches on the electric discharge with the. Part IV (De La Rue and Müller), 292.

Ciliated groove (siphonoglyphe) in the stomodeum of the Alecronarians (Hickson), 280.

Colouring-matters of the so-called bile of invertebrates, observations on (Maccunn) 132.

— — observations on the, of the so-called bile of invertebrates, on those of the bile of vertebrates, and on some unusual urine pigments (MacMunn) 370.

Compass, on the changes which take place in the deviations of the standard, in the iron armour-plated, iron, and composite-built ships of the Royal Navy on a considerable change of magnetic latitude (Creak), 77.

Composition of some of the animals fed and slaughtered as human food. Supplement: composition of the ash (Lawes and Gilbert), 342.

Connexion between chemical constitution and physiological action and antagonism, contributions to our knowledge of the (Brunton and Cash), 324.

Conroy (Sir J.), some experiments on metallic reflection. III. On the amount of light reflected by metallic surfaces, 26.

Continuity of the protoplasm through the walls of vegetable cells (Gardiner), 163.

Creak (Cpt. E. W.) on the changes which take place in the deviations of the standard compass in the iron armour-plated, iron, and composite-built ships of the Royal Navy on a considerable change of magnetic latitude, 77.

Crinoid from the Southern Sea, on a new (P. H. Carpenter), 138.


Curves, on, circumscribing rotating polygons with reference to the shape of drilled holes (Mallock), 319.

De La Rue (W.) and H. W. Müller, experimental researches on the electric
INDEX.

499

discharge with the chloride of silver battery. Part IV, 292.
Deviations of the standard compass, on the changes which take place in the, in the iron armour-plated, iron, and composite-built ships of the Royal Navy on a considerable change of magnetic latitude (Creak), 77.
Dewar (J.) and G. D. Liveing, notes on the absorption of ultra-violet rays by various substances, 71.
— note on the order of reversibility of the lithium lines, 76.
— note on the reversal of hydrogen lines; and on the outburst of hydrogen lines when water is dropped into the arc, 74.
— and A. Scott on the atomic weight of manganese, 44.
— on the molecular weights of the substituted ammonias. No. I. Triethylamine, 347.
Dilator nerve of the iris, note on the (Ferrier), 229.
Donaldson (F.), Jr., and W. H. Howell, experiments upon the heart of the dog, 271.
Drilled holes, on curves circumscribing rotating polygons with reference to the shape of (Mallock), 319.
Earth’s rotation, the cause of an apparent change in the time of (Stone), 135.
Eclipse of May 17, 1882, on the total solar (Schuster and Abney), 151.
Election, list of candidates for, 66.
— selected candidates for, 178.
— of Fellows, 275.
Electric discharge with the chloride of silver battery, experimental researches on the. Part IV (De La Rue and Müller), 292.
Electrical motions in a spherical conductor (Lamb), 130.
— resistance of carbon contacts (Bidlwell), 1.
— stimulation of the frog’s heart, on the effect of, and its modification by heat, cold, and the action of drugs (Brunton and Cash), 455.
Electromagnetic unit of electricity, on the determination of the number of electrostatic units in the (Thomson), 346.
Electromotive force and resistance of batteries, the effects of temperature on the (Preece), 48, 250.
Electrostatic units, on the determination of the number of, in the electromagnetic unit of electricity (Thomson), 346.
Examination of the dark glasses and mirrors of sextants, apparatus employed for, at the Kew Observatory (Whipple), 42.
Experimental inquiry into the composition of some of the animals fed and slaughtered as human food. Supplement: composition of the ash of the entire animals, and of certain separated parts (Lawes and Gilbert), 342.
Experiments on metallic reflection. No. 3. On the amount of light reflected by metallic surfaces (Conroy), 26.
Eyes of Arthropoda, on the structure and functions of (Lowne), 140.

Færoe Channel, remarks on the soundings and temperatures obtained in the, during the summer of 1882 (H.M.S. “Triton”) (Tizard), 202.
Fellows, election of, 275.
Ferrier (D.), note on the motor roots of the brachial plexus, and on the dilator nerve of the iris, 229.
Festing (Colonel) and Captain Abney, atmospheric absorption in the infrared of the solar spectrum, 80.
— influence of water in the atmosphere on the solar spectrum and solar temperature, 328.
Flight (W.), examination of the meteorite which fell on the 16th February, 1888, at Alfedanello, in the district of Verolannova, in the province of Brescia, Italy, 258.
Food, composition of the ash of some animals fed and slaughtered as human (Lawes and Gilbert), 342.
— contributions to the chemistry of (Bell), 161.
Foraminifera, researches on the. Supplemental: an abyssal type of the genus Orbitolites (Carpenter), 276.
Frankland (E.), contribution to the chemistry of storage batteries, 67.
Frog and newt, on the action of certain reagents upon the coloured blood-corpuscles of the (Stirling and Rannie), 114.

Gardiner (W.) on the continuity of the protoplasm through the walls of vegetable cells, 163.
Garrod (A. B.) on the formation of uric acid in the animal economy and its relation to hippuric acid, 63.
Gilbert (J. H.) and Sir J. B. Lawes, supplement to former paper entitled “Experimental inquiry into the composition of some of the animals fed and slaughtered as human food:” composition of the ash of the entire animals, and of certain separated parts, 342.
INDEX.

Glucinium (beryllium) on the atomic weight of (Humphidge), 137.
--- or beryllium, note on the atomic weight of (Reynolds), 248.
--- atomic weight of, reply to a note by Professor J. E. Reynolds (Humphidge), 358.

Great omentum and transverse mesocolon, on the development of the (Lockwood), 279.

Hansen’s tables, cause of the large errors existing between the positions of the moon deduced from, and observation (Stone), 135.

Hartley (W. N.), on line spectra of boron and silicon, 301.
--- and W. E. Adeney, measurements on the wave-lengths of rays of high refrangibility in the spectra of elementary substances, 148.

Heart, influence of variations in venous pressure, arterial pressure, and pulse-rate upon the work done by the (Howell and Donaldson), 271.
--- of the dog, experiments upon the (Howell and Donaldson), 271.
--- on the effect of electrical stimulation of the frog’s, and its modification by heat, cold, and the action of drugs (Brunton and Cash), 455.

Hicks (W. M.) on the steady motion of a hollow vortex, 304.

Hickson (S. J.), on the ciliated groove (siphonoglyphe) in the stomodeum of the Alycarians, 280.

Hippuric acid, on the formation of uric acid in the animal economy, and its relation to (Garrod), 63.

Hirudinea, contributions to the anatomy of the (Bourne), 350.

Hollow vortex, on the steady motion of (Hicks), 304.

Howell (W. H.) and F. Donaldson, junr., 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, 271.

Huggins (W.), on the function of the sound-post and on the proportional thickness of the strings of the violin 241.


Hughes (D. E.), theory of magnetism based upon new experimental researches, 178.

Humphidge (T. S.), on atomic weight of glucinium (beryllium), 137.
--- reply to a note by Professor J. E. Reynolds on the atomic weight of glucinium or beryllium, 358.

Hydrogen lines, note on the reversal of, and on the outbreak of, when water is dropped into the arc (Liveing and Dewar), 74.

Hygrometric and thermometric observations at heights of 4 and 170 feet, and of Siemens’ electrical thermometer at 260 feet above the ground, note on the establishment and first results of simultaneous (Symons), 310.

Illumination, on a new standard of (Precece), 359.

Influence of water in the atmosphere on the solar spectrum and solar temperature (Abney and Festing), 328.

Infra-red of the solar spectrum, atmospheric absorption in the (Abney and Festing), 50.

Innervation of the mammalian heart, preliminary note on the (Wooldridge), 226.

Iris, note on the dilator nerve of the (Ferrier), 229.

Iron armour-plated, iron, and composite-built ships of the Royal Navy, on the changes which take place in the deviations of the standard compass in the, on a considerable change of magnetic latitude (Creak), 77.

Jevons (William Stanley), obituary notice of, 1.

Kew Observatory, description of an apparatus employed at, for the examination of the dark glasses and mirrors of sextants (Whipple), 42.

Lamb (H.) on electrical motions in a spherical conductor, 130.

Latency, on the variations of, in certain skeletal muscles of some different animals (Cash and Yeo), 281.

Law of resistance in parallel channels, an experimental investigation of the (Reynolds), 84.

Lawes (Sir J. B.) and J. H. Gilbert, supplement to former paper entitled “Experimental inquiry into the composition of some of the animals fed and slaughtered as human food.” Composition of the ash of the entire animals, and of certain separated parts, 342.
INDEX. 501

Light, on the amount of, reflected by metallic surfaces (Conroy), 26.
— on the measurement of (Preece), 359.
Limiting thickness of liquid films (Reinold and Rücker), 149.
Line spectra of boron and silicon (Hartley), 301.
Liquid films, on the limiting thickness of (Reinold and Rücker), 149.
List of candidates for election, 66.
— selected candidates, 178.
— of presents, 100, 292, 360.
Lithium lines, note on the order of reversibility of the (Liveing and Dewar), 76.
Liveing (G. D.) and J. Dewar, notes on the absorption of ultra-violet rays by various substances, 71.
— note on the reversal of hydrogen lines: and on the outburst of hydrogen lines when water is dropped into the arc, 74.
— note on the order of reversibility of the lithium lines, 76.
Lockwood (C. B.) on the development of the great omentum and transverse mesocolon, 279.
Lowne (B. T.) on the structure and functions of the eyes of Arthropods, 140.

MacMunn (C. A.), observations on the colouring-matters of the so-called bile of invertebrates, and those of the bile of vertebrates, and on some unusual urine pigments, &c., 132, 370.
Magnetic latitude, on the changes which take place in the deviations of the standard compass in iron armoured, iron, and composite-built ships, on a considerable change of, 77.
— susceptibility, experimental determinations of, in absolute measure (Shida), 404.
Magnetism, preliminary note on a theory of (Hughes), 19.
— theory of, based upon new experimental researches (Hughes), 178.
Mallock (A.) on curves circumscribing rotating polygons with reference to the shape of drilled holes, 319.
Mammalian heart, preliminary note on the innervation of the (Wooldridge), 226.
Manganese, on the atomic weight of (Dewar and Scott), 44.
Maximum magnetisation, experimental determinations of, in absolute measure (Shida), 404.
Measurement of light, on the (Preece), 359.

Metallic reflection, some experiments on. No. 3 (Conroy), 26.
Meteorite, examination of the, which fell on the 16th February, 1883, at Alfa-nello, in the district of Verolamova, in the province of Brescia, Italy (Flight), 258.
Molecular weights of the substituted ammonias. No. 1. Triethylamine (Dewar and Scott), 347.
Moon, the principal cause of the large errors at present existing between the positions of the, deduced from Hansen's tables and observation (Stone), 135.
Motion of a hollow vortex, on the steady, (Hicks), 394.
— of water, an experimental investigation of the circumstances which determine whether the, shall be direct or sinuous (Reynolds), 84.
Motor roots of the brachial plexus, note on the (Ferrier), 229.
Müller (H. W.) and W. De La Rue, experimental researches on the electric discharge with the chloride of silver battery, 292.
Muscle, preliminary note on the action of calcium, barium, and potassium on (Brunton and Cash), 63.

Newt and frog, on the action of certain reagents upon the coloured blood-corpuscles of the (Stirling and Rannie), 114.
Number of electrostatic units in the electromagnetic unit of electricity, on the determination of the (Thomson), 346.

Obituary Notices:—
Balfour (Francis Maitland), xx.
Jevons (William Stanley), i.
Wöhler (Fredrich), xii.
Orbitolites, on an abyssal type of the genus (Carpenter), 276.
Order of reversibility of the lithium lines, note on the (Liveing and Dewar), 76.
Outburst of hydrogen lines, note on the, when water is dropped into the arc (Liveing and Dewar), 74.
Owen (Prof.) on the affinities of Thylacoolea, 19.
— pelvic characters of Thylacoolea carnifex, 163.

Parallel channels, an experimental investigation of the law of resistance in (Reynolds), 84.
Pavy (F. W.), introductory note on communications to be resented on the
physiology of the carbohydrates in the animal system, 145.
Pelvic characters of Thylacoleo carnifex (Owen), 163.
Photography, remarks on spectrum, in relation to new methods of quantitative chemical analysis. Part I (Hartley), 359.
Physiological action and antagonism, contributions to our knowledge of the connexion between chemical constitution and (Brunton and Cash), 324.
Physiology of the carbohydrates in the animal system; introductory note (Pavy), 145.
Pickering (E. C.), circular concerning astronomical photography, 260.
Potassium, action of, on muscle; preliminary note (Brunton and Cash), 63.
Preece (W. H.), the effects of temperature on the electromagnetic force and resistance of batteries, 48, 250.
—— on a new standard of illumination and the measurement of light, 359.
Preliminary note on a theory of magnetism based upon new experimental researches (Hughes), 19.
Presents, lists of, 100, 232, 360.
Pressure, influence of, on the temperature of volatilisation of solids (Ramsay and Young), 308.
Protoplasm, on the continuity of the, through the walls of vegetable cells (Gardiner), 163.
Pulse rate, influence of, upon the work done by the heart (Howell and Donaldson), 271.
Quantitative chemical analysis, remarks on spectrum photography in relation to new methods of. Part I (Hartley), 359.
Radiant matter spectroscopy (Crookes), 262.
Radiation, note on terrestrial (Tyn dall), 21.
—— on the dependence of, on temperature (Siemens), 166.
Ramsay (W.) and S. Young, influence of pressure on the temperature of volatilisation of solids, 308.
Rannie (A.) and W. Stirling on the action of certain reagents upon the coloured blood-corpuscles. Part I. The coloured blood-corpuscles of the newt and frog, 114.
Rays of high refrangibility, measurements of the wave-lengths of, in the spectra of elementary substances (Hartley and Adeney), 148.
Reflection, some experiments on metallic. No. 3 (Comroy), 26.
Reinold (A. W.) and A. W. Rücker on the limiting thickness of liquid films, 149.
Resistance of batteries, the effects of temperature on (Preece), 48, 250.
Reversal of hydrogen lines, note on the (Liveing and Dewar), 74.
Reversibility of lithium lines, note on the order of (Liveing and Dewar), 76.
Reynolds (J. E.), note on the atomic weight of glucinum or beryllium, 248.
Reynolds (O.), an experimental investigation of the circumstances which determine whether the motion of water shall be direct or sinuous, and of the law of resistance in parallel channels, 84.
Rhizopoda, arenaceous, note on Syringammina, a new type of, 155.
Rotating polygons, on curves circumscribing, with reference to the shape of drilled holes (Mallock), 319.
Rücker (A. W.) and A. W. Reinold on the limiting thickness of liquid films, 149.
Salts, on the solubility of, in water at high temperatures (Tilden and Shenstone), 345.
Schuster (A.) and Capt. W. de W. Abney, on the total solar eclipse of May 17, 1882, 151.
Scott (A.) and J. Dewar, on the atomic weight of manganese, 44.
—— on the molecular weights of the substituted ammonias. No. 1. Triethylamine, 347.
Secular acceleration in the moon's mean motion, the cause of an apparent increase in the, required by Hansen's tables (Stone), 135.
Sextants, apparatus employed at the Kew Observatory for the examination of the dark glasses and mirrors of (Whipple), 42.
Shida (R.), experimental determinations of magnetic susceptibility and of maximum magnetisation in absolute measure, 404.
Siemens (Sir W.) on the dependence of radiation on temperature, 166.
Silicon and boron, on line spectra of, (Hartley), 301.
Simultaneous thermometric and hygrometric observations at heights of 4 and 170 feet, and of Siemens' electrical thermometer at 260 feet above the ground, note on the establishment and first results of (Symons), 310.
INDEX.

Siphonoglyphe (ciliated groove) in the stomodaeum of the Aleyonarians (Hickson), 280.
Skeletal muscles of some different animals, on the variations of latency in certain (Cash and Yeo), 281.
Solar spectrum, atmospheric absorption in the infra-red of the (Abney and Festing), 80.
- influence of water in the atmosphere on the (Abney and Festing), 328.
- temperature, influence of water in the atmosphere on the (Abney and Festing), 328.
Solids, influence of pressure on the temperature of volatilisation of (Ramsay and Young), 308.
Solubility of salts in water at high temperatures (Tilden and Shenstone), 345.
Sound-post of the violin, on the function of the (Huggins), 241.
Soundings and temperatures, remarks on the, obtained in the Faeroe Channel during the summer of 1882 (Tizard), 202.
Spectra of boron and silicon, on line (Hartley), 301.
- of elementary substances, measurements of the wave-lengths of rays of high refrangibility in the (Hartley and Adeney), 148.
Spectrum analysis, a new method of. Radiant matter spectroscopy (Crookes), 262.
- photography, remarks on, in relation to new methods of quantitative chemical analysis. Part I (Hartley), 359.
Spherical conductor, on electrical motions in a (Prentice), 359.
Standard of illumination, on a new (Prentice), 359.
Steady motion of a hollow vortex, on the (Hicks), 304.
Stirling (W.) and A. Rannie on the action of certain reagents upon the coloured blood-corpuscles. Part I. The coloured blood-corpuscles of the newt and frog, 114.
Stone (E. J.), the principal cause of the large errors at present existing between the positions of the moon deduced from Hansen's tables and observation: and the cause of an apparent increase in the secular acceleration in the moon's mean motion required by Hansen's tables, or of an apparent change in the time of the earth's rotation, 135.
Storage batteries, contribution to the chemistry of (Frankland), 67.
Strings of the violin, on the proportional thickness of the (Huggins), 241.
Substituted ammonias, on the molecular weight of. No. 1. Triethylamine (Dewar and Scott), 347.
Symons (G. J.), note on the establishment and first results of simultaneous thermometric and hygrometric observations at heights of 4 and 170 feet, and of Siemens' electrical thermometer at 260 feet above the ground, 310.
Syringammina, a new type of arenaceous Rhizopoda, note on (Brady), 155.
Temperature, effects of, on the electromotive force and resistance of batteries. No. 2 (Prentice), 250.
- of volatilisation of solids, influence of pressure on the (Ramsay and Young), 308.
- on the dependence of radiation on (Siemens), 166.
- the effects of, on the electromotive force and resistance of batteries (Prentice), 48.
Terrestrial radiation, note on (Tyn dall), 21.
Theory of descent, a study in the abyssal type of the genus Orbitolites (Carpenter), 276.
- of magnetism, preliminary note on a, based upon new experimental researches (Hughes), 19.
Thermometric and hygrometric observations at heights of 4 and 170 feet, and of Siemens' electrical thermometer at 260 feet above the ground, note on the establishment and first results of simultaneous (Symons), 310.
Thomson (J. J.) on the determination of the number of electrostatic units in the electromagnetic unit of electricity, 346.
Thylaceoleo, on the affinities of (Owen), 19.
- carnivex, pelvic characters of (Owen), 163.
Tilden (W. A.) and W. A. Shenstone on the solubility of salts in water at high temperatures, 345.
Tizard (Commander T. H.), remarks on the soundings and temperatures obtained in the Faeroe Channel during the summer of 1882 (H.M.S. "Triton"), 202.
Total solar eclipse of May 17, 1882 (Schuster and Abney), 151.
Transverse mesoconch, on the development of the great omentum and (Lockwood), 279.
Triethylamine, on the molecular weight of (Dewar and Scott), 347.

"Triton" (H.M.S.). Remarks on the soundings and temperatures obtained in the Faeroe Channel during the summer of 1882 (Tizard), 202.

Tyndall (J.), note on terrestrial radiation, 21.

— on a hitherto unobserved resemblance between carbonic acid and bisulphide of carbon, 129.

Ultra-violet rays, notes on the absorption of, by various substances (Living and Dewar), 71.

Unit of electricity, on the determination of the number of electrostatic units in the electromagnetic (Thomson), 346.

Uric acid, on the formation of, in the animal economy and its relation to hippuric acid (Garrod), 63.

Urine pigments, on some unusual (Mackinnon), 132, 370.

Variations of latency in certain skeletal muscles of some different animals, on the (Cash and Yeo), 281.

Vegetable cells, on the continuity of the protoplasm through the walls of (Gardiner), 163.

Venous pressure, influence of variations in, upon the work done by the heart (Howell and Donaldson), 271.

Violin, on the function of the sound-post and on the proportional thickness of the strings of the (Huggins), 241.

Volutilisation of solids, influence of pressure on the temperature of (Ramsay and Young), 308.

Vortex, on the steady motion of a hollow (Hicks), 304.

Water in the atmosphere, influence of, on the solar spectrum and solar temperature (Abney and Festing), 328.

Wave-lengths of rays of high refrangibility, measurements of the, in the spectra of elementary substances (Hartley and Adeney), 148.

Whipple (G. M.), description of an apparatus employed at the Kew Observatory, Richmond, for the examination of the dark glasses and mirrors of sextants, 42.

Wöhler (Friedrich), obituary notice of, xii.

Wooldridge (L. C.), preliminary note on the innervation of the mammalian heart, 226.

Yeo (G. F.) and Th. Cash on the variations of latency in certain skeletal muscles of some different animals, 281.

Young (S.) and W. Ramsay, influence of pressure on the temperature of volatilisation of solids, 308.

END OF THE THIRTY-FIFTH VOLUME.