

and, if we may judge from the names of the books and authors given in the prospectus, are likely to be of real value. The volume before us is by the editor of the series, and is devoted to a history of esthetics from the days of the Greek philosophers to the present time. Another volume is projected by the author, in which he will discuss the subjects of beauty and art themselves, and will present a constructive theory of his own. The present work is a succinct but useful summary of the teachings of previous writers, presented with impartiality and in a clear and attractive style. The ancient writers are first treated of, Plato and Aristotle occupying the foremost places; and then, after a brief glance at certain mediæval philosophers, the esthetic writers of modern times are taken up, those of each nation being grouped together. Thus the philosophy of Germany from the earliest times to the present is first dealt with, then those of France, Italy, Holland, Britain, and America. This arrangement enables us to see the effect of national genius on the philosophy and criticism of art, but fails to show with equal clearness what the writers of one nation have owed to those of another. The principal fault of Professor Knight's work, as it seems to us, is the attention given to insignificant authors, who contributed nothing to the subject, either by philosophy or by criticism, and who might better have been passed over in silence. The impression produced on the mind by the book is in one respect discouraging, for it seems to show that little real advance in the philosophy of beauty has been made since ancient days. The theory, first promulgated by Plato and afterwards adopted by Aristotle, that the essence of beauty consists in harmony and proportion, still holds its ground; but the dispute between Aristotelian realism and Platonic idealism is as unsettled as ever. We commend Professor Knight's book to students of esthetics, and shall look with interest for his second volume.

Electricity and Magnetism. Translated from the French of AMEDEE GUILLEMIN. Revised and edited by Silvanus P. Thompson. London and New York, Macmillan. 8°. \$8.

THIS is certainly as fine a piece of book making in the line of the physical sciences as we remember having seen for some time. A few French writers have in the past brought out these handsome volumes in popular exposition of this or that branch of science, and occasionally these have been translated. But there have been few published in English except as translations.

That Professor Silvanus P. Thompson is known as the writer of good books in electrical science goes without saying, and his standing as a physicist is unquestioned, as has been recognized by his election not many years ago as a Fellow of the Royal Society. The editor, however, claims responsibility on but a few points. The chapters on dynamo-electric machines and on the telephone were largely rewritten by him, and brought into accordance with modern knowledge; and throughout the book frequent editorial notes in brackets are inserted that bring the statements up to date.

The book is not intended for the student, but as a popular, simple, non-mathematical exposition of the science which now attracts such general interest. The volume is certainly one on which a great amount of labor and money must have been expended, but there has been left in a great deal of matter of purely historical interest, matter not of a character likely to please any one looking only for the latest information. Electrical science has moved considerably in the past ten years, and it has been difficult for the editor to conceal the evident influence of the Pan-Electrical Exposition of 1881 as a recent event on the French original.

When one is asked for a popular book on electricity and magnetism, the answer is a difficult one, since such valuable manuals as the "Principles of Electricity and Magnetism," by Professor Thompson, may prove too formally scientific for the untrained reader. There is certainly no other work in English that treats electricity and magnetism in so untechnical a way as does this by Guillemin; we only question whether it might not have been of half the size and served its purpose as well. The first part of the volume is devoted to the pure science, the second to the applications in the industries.

AMONG THE PUBLISHERS.

F. A. BROCKHAUS, Leipzig, announces a new edition (the fourteenth) of his "Brockhaus' Konversation-Lexikon." The first volume of the first edition was published in 1796, so that the present is projected as a sort of century-jubilee edition. The work will be very much enlarged and printed in a sumptuous manner. It may be had in 256 weekly parts or in sixteen bound volumes.

— Messrs. D. Appleton & Co. are about to publish "Freeland: A Social Anticipation," by Dr. Theodor Hertzka, a book which has been called the German "Looking Backward." This work describes an imaginary colony in equatorial Africa, in which Dr. Hertzka's economic system of land and capital nationalization, combined with absolutely untrammelled industrial competition, is carried out. The book has given rise already to local societies in Vienna, Buda Pest, Prague, Czerarowitz, Berlin, Hamburg, Brunswick, Hanover, and some fourteen other places, which will ultimately be united into an International Free Society for the purpose of establishing such a colony as is described in the book.

— *Babyhood* contains the following among other articles in its October issue: "The Management and Care of Near-Sighted Eyes," by J. M. Mills, M.D.; "The Airing and Exercise of Infants," by Alfred Stengel, M.D.; "The Bones in Childhood," by Harriet Brooke Smith, M.D.; "Nursery Ventilation;" "The Nursery Chair;" "Sweets;" "From One to Five;" "How to Carry the Baby;" "Neglect of Milk Crust;" "Fat Babies vs. Lean Babies;" "Blowing Baby's Nose;" "A Night Jacket;" "Washing Baby's Flannels;" "Contagion from Whooping Cough;" "Buying a Cow for the Baby;" "Condensed Milk for a Long Journey;" "Quantity of Food at One Year;" "Hard and Soft Water as Affecting Teeth;" "A Cure for the Green Apple Habit."

— "Seas and Lands" is the title Sir Edwin Arnold has given to the account of his recent travels, which the Longmans will publish at once. The earlier chapters are devoted to Canada and the United States, but the bulk of the book is given up to Japan as it impressed the author of the "Light of Asia" day by day. There are more than forty full page illustrations from photographs. The same firm will issue at once Canon Farrar's new copyright novel, "Darkness and Dawn; or, Scenes in the Days of Nero." This historic tale is the author's first venture into fiction for many years, and it is the result of his investigation into the early history of Christianity. He has stuck more closely to the facts than most writers of fiction, and he declares that the "outline of his story is determined by the actual events of pagan and Christian history."

— In the *Magazine of American History* for October an article by the editor, "A Group of Columbus Portraits," deals with facts and picture-pedigrees, giving fac-similes of the oldest and rarest engraved prints of Columbus portraiture extant, with much other data of timely consequence. The double-headed contemporary print of the portraits of Ferdinand and Isabella is included; and Mrs. Lamb adds to her essay suggestive sketches of those sovereigns and their great military triumphs in connection with Columbus and the dawn of America upon the map of the world. W. F. Ganong follows with a paper on "The St. Croix of the Northeastern Boundary," and four illustrative maps. "Hugh McCulloch on Daniel Webster" is an excerpt of interest. The longest article in the number is a study by Right Reverend M. F. Howley, D.D., P.A., of Newfoundland, on "Cabot's Landfall," the scene of which he traces, according to his judgment, in an elaborate accompanying map. Then comes a contribution pertinent to the approaching World's Fair, "The Sultan of Turkey and the Chicago Exhibition," by Frederick Diodati Thompson, touching on the calamities and historic growth of Chicago, and presenting many facts about Turkey and its ruler, whose visit to America on the opening of the Columbian exposition is foreshadowed. Other articles include "Philadelphia in 1778 through Foreign Eyes," and "Napoleon Bonaparte and Peace with America."

— Dr. De Kroustekoff, an eminent chemist and mineralogist of St. Petersburg, recently paid a visit of some weeks to the United States, charged with a scientific mission by the Russian Govern-

ment. Dr. de Kroustekoff announces a series of translations in Russian from the works of leading American, French, and German scientists. The first of these volumes, it is expected, will appear next year, and is to comprise the greater part of Dr. T. Sterry Hunt's "New Basis for Chemistry," together with his studies of the origin and succession of crystalline rocks, the crenitic hypothesis, and various related subjects.

— Messrs. Macmillan & Co. will publish next month a "Browning Cyclopædia," by Dr. Edward Berdoe, one of the most active members of the Browning Society. This volume will deal with the whole of the poet's works, and will contain a commentary on every poem, with explanations of all obscurities and difficulties arising from the historical allusions, legends, classical and archaic phraseology, and curious out-of-the-way terminology, which makes Browning so difficult for the ordinary reader.

— Professor J. R. Cooke of Harvard University, author of the well-known "New Chemistry" in the International Scientific Series, has written a most helpful new book entitled "Laboratory Practice," which, as its name indicates, will be a practical aid to students. The book is designed for a companion to Professor Cooke's "The New Chemistry," which has been for many years a standard work, and has been translated into all the principal European languages. The new book is brought out by the publishers of the other, D. Appleton & Co.

— In addition to the fall announcements of Macmillan & Co. made in our issue of Sept. 25, we note the following: "Symbolism in Christian Art," and "Heraldry," by F. E. Hulme; "Monumental Brasses," by the Rev. H. W. Macklin; Behaghel's "The German Language," translated and adapted for the use of English schools by Emil Trechmann; "A History of Early English Literature," by the Rev. Stopford A. Brooke; "The Buccaneers of America," by Captain James Burney (reprinted from the edition of 1816); "Some Aspects of the Greek Genius," by S. H. Butcher, professor of Greek, Edinburgh; "The Inferno of Dante," translated, with a commentary, by A. J. Butler; "English Literature at the Universities," by S. Churton Collins; "Browning's Message to His Time," by Dr. Edward Berdoe (with a portrait and facsimile letters; second edition, revised and enlarged); "Dante and His Ideal," by Herbert Baynes (with a portrait); "Goethe," by Oscar Browning (with a portrait); "Dante," by Oscar Browning (with portrait); "Browning's Criticism of Life," by W. F. Revell; "Henrik Ibsen," by the Rev. Philip H. Wicksteed; "Epictetus (the Discourses of)," with the Eucheiridion and Fragments reprinted from the translation of George Long (printed on hand-made paper, bound in buckram); "Battles, Bivouacs and Barracks," by Archibald Forbes; two new volumes of essays by E. A. Freeman (I. — Historical, II. — Miscellaneous); "A Short Manual of Philology for Classical Students," by P. Giles, fellow of Gonville and Caius College, Cambridge (uniform with Dr. Gow's "Com-

Publications received at Editor's Office,
Oct. 7-13.

- BRAINARD, F. R. The Sextant and other Reflecting Mathematical Instruments. New York, Van Nostrand. 120 p. 16°. 50 cents.
CANADA, Annual Report of the Geological and Natural History Survey of, 1888-89. Vol. IV. Montreal, Government. 4°. \$2.
COOKE, J. P. Laboratory Practice. New York, Appleton. 192 p. 12°. \$1.
GUILLEMIN, A. Electricity and Magnetism (rev. and ed. by S. P. Thompson). London and New York, Macmillan. 976 p. 4°. \$8.
KNIGHT, W. The Philosophy of the Beautiful. New York, Scribner. 288 p. 12°. \$1.
MITCHELL, E. A Study of Greek Philosophy. Chicago, Griggs. 282 p. 12°. \$1.25.
PLYMPTON, G. W. How to Become an Engineer. New York, Van Nostrand. 218 p. 16°. 50 cents.
STODDARD, C. A. Across Russia. New York, Scribner. 258 p. 8°. \$1.50.
UNITED STATES and the Dominion of Canada, Normal Temperature Charts by Decades for the Washington, Government. 72 p. 1°.

PRACTICAL WORK
IN
ORGANIC CHEMISTRY.

By FREDERICK WM. STREATFEILD, with a Prefatory Notice by Prof. R. Meldola.
156 pages, with 35 illustrations, \$1.25.

E. & F. H. SPON, 12 Cortlandt St., N. Y.

HANDBOOK OF METEOROLOGICAL TABLES.

By ASST. PROF. H. A. HAZEN.
127 pp. 8°.

Professor Waldo says: "I heartily recommend them to all workers in meteorology, and do not see how any of our American meteorologists can afford to be without a copy."

Professor Symons of London says: "They are unquestionably valuable helps, which must be kept handy, and replaced when worn out."

Price, postpaid, \$1.

N. D. C. HODGES, 47 Lafayette Pl., New York.

BOOKS: How to Exchange them for others. Send a postal to the SCIENCE exchange column (insertion free), stating briefly what you want to exchange. SCIENCE, 47 Lafayette Place, New York.

"The Week, one of the ablest papers on the continent."—*Descriptive America.*

THE WEEK,
A Canadian Journal of Politics, Literature, Science and Art.

PUBLISHED EVERY FRIDAY.

\$3.00 per Year. \$1.00 for Four Months.

THE WEEK has entered on its EIGHTH year of publication, greatly improved in every respect, rendering it more worthy the cordial support of every one interested in the maintenance of a first-class literary journal.

The independence in politics and criticism which has characterized THE WEEK ever since its first issue will be rigidly maintained; and unceasing efforts will be made to improve its literary character and increase its attractiveness as a journal for the cultured home. Many new and able writers are now, or have promised to become, contributors to its columns, and the constant aim of the Publisher will be to make THE WEEK fully equal to the best literary journals in Britain and the United States.

As heretofore, PROF. GOLDWIN SMITH will, from time to time, contribute articles. London, Paris, Washington and Montreal letters from accomplished correspondents will appear at regular intervals. Special Ottawa Letters will appear during the sessions of Parliament.

THE WEEK being the same size as "Harper's Weekly," is the largest paper of its class on the continent.

SEND FOR FREE SAMPLE COPY.

C. BLACKETT ROBINSON, Publisher,
5 Jordan St., Toronto, Canada.

THE
AMERICAN GEOLOGIST FOR 1891
AND
BIEN'S NEW ATLAS OF THE METROPOLITAN DISTRICT,

will be given to **New Subscribers** to the GEOLOGIST for \$25.00 (which is the regular price of the Atlas alone), if ordered through the GEOLOGIST.

For other premiums see the GEOLOGIST for Nov., Dec., and Jan. Address

THE GEOLOGICAL PUBLISHING COMPANY,
Minneapolis, Minn.

THE BOTANICAL GAZETTE.

A monthly illustrated journal of botany in all its departments.

25 cents a number, \$2.50 a year.

Address **PUBLISHERS BOTANICAL GAZETTE,**
Crawfordsville, Ind.

Publications of the University of Pennsylvania.

SERIES IN

Philology, Literature and Archæology.

Vol. I. now ready.

1. Poetic and Verse Criticism of the Reign of Elizabeth. By Felix E. Schelling, A.M., Assistant Professor of English Literature. \$1.00.
2. A Fragment of the Babylonian "Dibbara" Epic. By Morris Jastrow, Jr., Ph.D., Professor of Arabic. 60 cents.
3. a. *Ἦρος*; with the Accusative. b. Note on a Pas, sage in the Antigone. By William A. Lamberton, A.M., Professor of the Greek Language and Literature. 50 cents.
4. The Gambling Games of the Chinese in America. Fán tán and Pák kóp piá. By Stewart Culin, Secretary of the Museum of Archæology and Palæontology. 40 cents.

In preparation.

The Terrace at Persepolis. By Morton W. Easton, Ph.D., Professor of Comparative Philology.

An Aztec Manuscript. By Daniel G. Brinton, M.D., Professor of American Archæology and Linguistics.

A Monograph on the Tempest. By Horace Howard Furness, Ph.D., LL.D.

Recent Archæological Explorations in New Jersey. By Charles C. Abbott, M.D., Curator of the American Collections.

Archæological Notes in Northern Morocco. By Talcott Williams, A.M., Secretary of the Museum of Egyptian Antiquities.

a. On the Aristotelian Dative. b. On a Passage in Aristotle's Rhetoric. By William A. Lamberton, A.M., Professor of the Greek Language and Literature.

A Hebrew Bowl Inscription. By Morris Jastrow, Jr., Ph.D., Professor of Arabic.

The Life and Writings of George Gascoigne. By Felix E. Schelling, A.M., Assistant Professor of English Literature.

The Papers of this Series, prepared by Professors and others connected with the University of Pennsylvania, will take the form of Monographs on the subjects of Philology, Literature, and Archæology, whereof about 200 or 250 pages will form a volume.

The price to subscribers to the Series will be \$1.50 per volume; to others than subscribers, \$2.00 per volume.

Each Monograph, however, is complete in itself, and will be sold separately.

It is the intention of the University to issue these Monographs from time to time as they shall be prepared.

Each author assumes the responsibility of his own contribution.

N. D. C. HODGES,

47 Lafayette Place, New York, N. Y.

BOOKS: How to get them. If there is any Book or pamphlet that you want, write to the Science book Agency, 47 Lafayette Place, New York.

panion to School Classics"); "The Present State of the Fine Arts in France," by P. G. Hamerton; "The New Calendar of Great Men," edited by Frederic Harrison, author of "The Choice of Books;" "Text-Book of the Developmental History of the Vertebrates," by Dr. Oxar Hertwig, professor of comparative anatomy in the University of Berlin (translated and edited by Dr. E. L. Mark of Harvard); "Story of the Hills," by H. M. Hutchinson, author of "The Autobiography of the Earth;" "The Government of Victoria" (Australia), by Edward Jenks, professor of law in the University of Melbourne; "Text-Book of the Developmental History of the Invertebrates," by Drs. Korscheldt and Heider of Berlin (translated under the supervision of Dr. E. L. Mark of Harvard); "Historical Outlines of English Syntax," by the Rev. R. Morris and Dr. L. Kellner; "Religious Systems of the World: Pre-Christian, Christian and Philosophic," a series of essays by eminent specialists (second edition, revised and considerably enlarged, containing more than twenty additional articles); "British

Seas," by W. Clark Russell (with numerous illustrations); "The Wisdom of Life," "Counsels and Maxims," "Religion," "The Art of Literature," and "Studies in Pessimism," by Schopenhauer (new edition, translated by T. Bailey Saunders); "Commercial German," by F. C. Smith; "Fossil Botany," an introduction to paleophytology from the standpoint of the botanist, by H. Graf zu Solms-Laubach, professor in the University of Göttingen (authorized English translation by Henry E. F. Garnsey, fellow of Magdalen College, Oxford; revised by Isaac Bayley Balfour, professor of botany in the university and keeper of the Royal Botanical Garden, Edinburgh); "England and the English in the Eighteenth Century: Chapters in the Social History of the Times," by William Connor Sydney; "Diphtheria: Its Natural History and Prevention," by Dr. Thorne Thorne; "Madhiism and the Soudan" (an account of the rise and progress of Madhiism, and of the subsequent events in the Soudan to the present time) by Major F. R. Wingate, R.A.

A Tonic

Horsford's Acid Phosphate.

A most excellent and agreeable tonic and appetizer. It nourishes and invigorates the tired brain and body, imparts renewed energy and vitality, and enlivens the functions.

Dr. EPHRAIM BATEMAN, Cedarville, N. J., says:

"I have used it for several years, not only in my practice, but in my own individual case, and consider it under all circumstances one of the best nerve tonics that we possess. For mental exhaustion or overwork it gives renewed strength and vigor to the entire system."

Descriptive pamphlet free.

Rumford Chemical Works, Providence, R. I.

Beware of Substitutes and Imitations.

CAUTION.—Be sure the word "Horsford's" is on the label. All others are spurious. Never sold in bulk.

POPULAR MANUAL OF VISIBLE SPEECH AND VOCAL PHYSIOLOGY.

For use in Colleges and Normal Schools. Price 50 cents
Sent free by post by

N. D. C. HODGES, 47 Lafayette Pl., N. Y.

PRIZE ESSAYS OF THE AMERICAN PUBLIC HEALTH ASSOCIATION.

Practical Sanitary and Economic Cooking Adapted to Persons of Moderate and Small Means. By MRS. MARY HINMAN ABEL. 12mo, 182 pp. Cloth, 40 cents.

No. 1. Healthy Homes and Foods for the Working-Class. By Professor C. Vaughan, M.D. Ann Arbor, Mich. 8vo, 62 pp. Paper, 10 cents.

No. 2. The Sanitary Conditions and Necessities of School-Houses and School-Life. By D. F. Lincoln, M.D., Boston, Mass. 8vo, 38 pp. 5 cents.

No. 3. Disinfection and Individual Prophylaxis against Infectious Diseases. By George M. Sternberg, M.D., Major and Surgeon U.S.A. 8vo, 40 pp. Paper, 5 cents.

No. 4. The Preventable Causes of Disease, Injury, and Death in American Manufactories and Workshops, and the Best Means and Appliances for Preventing and Avoiding Them. By George H. Ireland, Springfield, Mass. 8vo, 20 pp. Paper, 5 cents.

The four essays (Nos. 1, 2, 3, 4) in one volume of nearly two hundred large octavo pages, thoroughly indexed. Cloth, 50 cents.

N. D. C. HODGES, 47 Lafayette Place, New York.



Old and Rare Books.

BACK NUMBERS and complete sets of leading Magazines. Rates low. AM. MAG. EXCHANGE, Schoharie N.Y.

Speech Reading and Articulation Teaching.

By A. MELVILLE BELL.

Price, 25 Cents.

Practical Instructions in the Art of Reading Speech from the Mouth; and in the Art of Teaching Articulation to the Deaf.

[This Work—written at the suggestion of Miss Sarah Fuller, Principal of the Horace Mann School for the Deaf, Boston, Mass.—is, so far as known, the first Treatise published on "Speech Reading."]

From Principals of Institutions for the Deaf.

"Admirable in its conciseness, clearness and freedom from technicality."

"The simplicity and perfection of this little book."

"Full of exact and helpful observations."

"A very interesting and valuable work."

"The rules are clearly given and will be of great utility."

"Every articulation teacher should study it."

"A model of clearness and simplicity, without having any of the puzzling symbols that trouble the common mind. . . . The exercises given in speech-reading from the lips are especially interesting, and of great importance for the student of phonetics."

—*Modern Language Notes.*

* * The above work may be obtained, by order, through any bookseller, or post-free on receipt of price, from

N. D. C. HODGES,

47 Lafayette Place, New York.

AMERICAN HERO-MYTHS.

A Study in the Native Religions of the Western Continent.

By D. G. BRINTON, M.D. 8°. \$1.75.

THE CRADLE OF THE SEMITES.

By D. G. BRINTON, M.D., and MORRIS JASTROW, JR. Ph.D. 8°. 30 cents.

N. D. C. HODGES, 47 Lafayette Pl., New York.



DO YOU INTEND TO BUILD?

If you intend to build, it will be a mistake not to send for "SENSIBLE LOW-COST HOUSES," now arranged in three volumes. In them you will find perspective views, floor plans, descriptions, and estimates of cost for 105 tasteful, new designs for houses. They also give prices for complete Working Plans, Details, and Specifications, which enable you to build without delays, mistakes or quarrels with your builder, and which any one can understand. Vol. I. contains 35 copyrighted designs of houses, costing between \$500 and \$1800. Vol. II. contains 35 copyrighted designs, \$1800 to \$3000. Vol. III. contains 35 copyrighted designs, \$3000 to \$9000. Price, by mail, \$1.00 each, or \$3.00 for the set.

"COLONIAL HOUSES," a volume showing Perspectives and Floor Plans of houses arranged in the inimitable style of the Colonial Architecture, and having all modern arrangements for comfort. Price, \$2.00.

"PICTURESQUE HOUSES FOR FOREST AND SHORE":—This shows Perspectives and Floor Plans of new designs for Summer Cottages, which are romantic, convenient, and cheap. Price, \$1.00, by mail.

N. D. C. HODGES, 47 Lafayette Place, New York.