

THE PIRSSON-SCHUCHERT GEOLOGIES

Thoroughly Revised And Up-To-Date

A Textbook Available for Every Elementary Course

1

TEXTBOOK OF GEOLOGY

2

Part 1. Physical Geology

By the late Louis V. Pirsson and Charles Schuchert, LL.D., D.Sc., Professor Emeritus of Geology, Yale University. C. R. Longwell, Chairman of Revision Committee. Third Edition. 1929.

Presents the broad facts and principles from the latest viewpoint; an especially notable and original feature of this edition is the introduction of block diagrams.

488 pages 6 by 9 \$3.75

Part 2. Historical Geology

By Charles Schuchert. Second Edition. 1924.

This second part of "Textbook of Geology" shows the relationship of Historical Geology to Astronomy, Evolution, Biology and Oceanography. A discussion of Botany and Zoology is included, to aid students taking the first year's work in Geology.

724 pages 6 by 9 \$4.50

3 OUTLINES OF Physical Geology

By the late Louis V. Pirsson and Chester Longwell, Ph.D., Professor of Geology, Yale University. First Edition. 1930.

"Outlines of Physical Geology" is an abbreviated and more elementary form of the larger volume "Physical Geology." This volume assumes that the student will have some knowledge of the common minerals and rocks before he begins the study of weathering and other geologic processes.

376 pages 6 by 9 \$3.00

4 OUTLINES OF Historical Geology

By Charles Schuchert. Second Edition. 1931.

This is an abbreviated edition of the larger work, "Historical Geology" with many new and original features. The chapter on Paleogeography has been considerably lengthened as have those on the Cenozoic and on the mammals. Many new drawings and photographs have been added and contribute much in making an interesting textbook.

348 pages 6 by 9 \$3.00

5

FOUNDATIONS OF GEOLOGY

Just Published

By the late Louis V. Pirsson and Charles Schuchert and Chester Longwell. Being a combination of Outlines of Physical Geology and Outlines of Historical Geology.

This volume consists of the two books Physical Geology and Historical Geology under one cover. There is now a desirable balance between the physical and historical parts of the text. Illustrations are chosen for their teaching value, and not merely to embellish. The book is excellent for first year students in geology.

Price \$5.00

**JOHN WILEY
& SONS, INC.**

**440-4TH AVENUE
NEW YORK**

NEW CAMBRIDGE BOOKS

ON PHYSICS



Radiations from Radioactive Substances

By

SIR ERNEST RUTHERFORD
JAMES CHADWICK
C. D. ELLIS

A book of supreme importance to all physicists and chemists. "The most considerable book on Physics since the War. . . . The effect of this collaboration has been to give the book a unique authority."—*The London Listener*.

Illustrated 588 pages 8vo \$6.50

An Outline of Wave Mechanics

By N. F. MOTT

The student trained in experimental Physics who wishes to understand wave mechanics will find this a highly valuable book. Using advanced mathematical procedure the author expounds the new quantum theory. The book is especially recommended to physicists interested in research and actual experiment.

156 pages 8vo \$2.80

Band Spectra and Molecular Structure

By R. de L. KRONIG

The author has made notable contributions to the subject; to the mathematical physicist and the student of the new quantum theory this book will prove not only interesting but necessary.

"An accurate and authoritative presentation of the subject on its theoretical side."—*The Journal of Physical Chemistry*.

163 pages 8vo \$3.50

Published by THE CAMBRIDGE UNIVERSITY PRESS (England)

Obtainable at bookstores or from

60 Fifth Ave.

THE MACMILLAN COMPANY

New York

The Journal of General Physiology

EDITED BY

W. J. CROZIER

JOHN H. NORTHOPE

W. J. V. OSTERHOUT

In response to numerous requests, it has been decided to resume the offer for a complete set of the back volumes at half price to new subscribers. The first thirteen volumes complete may therefore be obtained for \$32.50 by new subscribers, until further notice.

Contents of Volume 14, No. 4, March 20, 1931

PINCUS, GREGORY. On the temperature characteristics for frequency of breathing movements in inbred strains of mice and in their hybrid offspring. I.

MURRAY, CECIL D. The physiological principle of minimum work. A reply.

GOWEN, JOHN W. On chromosome balance as a factor in duration of life.

GOWEN, JOHN W. Metabolism as related to chromosome structure and the duration of life.

OSTERHOUT, W. J. V., and HILL, S. E. Electrical variations due to mechanical transmission of stimuli.

ABRAMSON, H. A., and GROSSMAN, E. B. A method for the rapid dialysis of large volumes of protein solutions.

KRUEGER, ALBERT P. The sorption of bacteriophage by living and dead susceptible bacteria. I. Equilibrium conditions.

RASHEVSKY, N. On the theory of nervous conduction.

HARVEY, E. NEWTON, and SNELL, PETER A. The analysis of bioluminescences of short duration, recorded with photoelectric cell and string galvanometer.

SUBSCRIPTION PRICE PER YEAR (ONE VOLUME), \$5.00

PUBLISHED BIMONTHLY BY

The Rockefeller Institute for Medical Research

YORK AVENUE AND 66TH STREET

NEW YORK, N. Y.



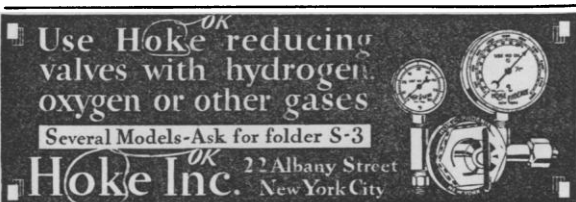
Hq-Speed MIXERS
Clamp to any tank, operate from light circuit, mix all liquids, maintain even temperature baths. Thousands used in sizes for 1 to 50,000 gallon tanks.
Also Filters, Glass-lined Tanks
Write for Catalogue
ALSO ENGINEERING CO.
39 West 60th St., New York



WE SPECIALIZE IN REPAIRING Microscopes, Colorimeters, Scientific and Laboratory Instruments. Agents of Bausch & Lomb products. New and rebuilt microscopes for sale. We also buy used microscopes and parts.
Oswald Griner Co., 1108 Oak St., Kansas City, Mo.



Field Equipment for Engineers, Explorers, Hunters, Travelers
Scientific Instruments; Packing Equipment; Skis; Firearms; Clothing; Fiala Pat. Sleeping Bags; Optical Instruments; Astronomic Telescopes; Range Finders; Binoculars. Faulin Altimeters
Write for Catalog "A"
FIALA OUTFITS
47 Warren St., New York



Use Hoke reducing valves with hydrogen, oxygen or other gases
Several Models—Ask for folder S-3
Hoke Inc. 22 Albany Street New York City

Placement Service of the Federation of American Societies for EXPERIMENTAL BIOLOGY

This Service offers a means of communication between workers in Physiology, Biochemistry, Pharmacology, and Experimental Pathology, who desire a change of location, and institutions which have vacancies to fill. Non-members of the Federation as well as members and Institutions are invited to register their needs. No fee is charged by the Service.

Address the executive officer

Dr. C. W. Edmunds University of Michigan
Pharmacological Laboratory Ann Arbor, Michigan

PRISM BINOCULARS

A number of high-grade prism binoculars, excellently adapted for bird and field studies, surveys and out-door use, can be obtained at a very attractive price. These binoculars are the product of a leading manufacturer and have been used for exhibition displays but are perfect in every respect.

Address, "B. R. N.," The Science Press, 3939 Grand Central Terminal, New York, N. Y.

RECENT SCIENTIFIC BOOKS

which by arrangement with The Science Press are offered by
G. E. STECHERT & CO., 31 East 10th St., New York
 to which firm orders should be addressed

MATHEMATICS—PHYSICS

Atti del Congresso Internazionale dei Matematici Bologna 3-10 settembre 1923. Pt. II: "Comunicazioni, sezione I (A-B)" 365 pp. Pt. III: "Dass., sezione I (C-D). 472 pp. @ \$5.40.

Bachmann, Paul. *Grundlehren d. neueren Zahlentheorie.* 3rd ed. by R. Haussner. Ill. pp. xvi+252. \$2.52.

Bieberbach, Ludwig. *Lehrbuch der Funktionentheorie.* Vol. 2: Moderne Funktionentheorie. 2nd ed. pp. vi+370. Ill. \$4.80.

Israel, H., Ruckhaber, E. & Weinmann, R. *Hundert Autoren gegen Einstein.* 104 pp. \$-.58.

Nernst, W. & Schoenflies, A. *Einfuehrung i. d. mathemat. Behandlung d. Naturwissenschaften.* Kurzgefasstes Lehrbuch d. Differential- u. Integralrechnung mit. bes. Beruecks. d. Chemie. 108 ill. pp. xiv+478. \$4.80.

Pohl, Robert. *Einfuehrung in die Elektrizitaetslehre.* 3rd ed. pp. viii+264. \$3.31.

Salmon, George. *Analytische Geometrie der Kegelschnitte.* Ed. by Fiedler-Dingeldey. 8th ed. Pt. 2. Ill. pp. x+446. \$4.08.

Schilling, F. *Projektive und nichteuklidische Geometrie.* Vol. I: "Projektive Geometrie i. analytischer Behandlung, nebst einem Einblick i. d. Grundlagen d. Geometrie." 157 ill. Vol. II: "Nichteuklidische Geometrie auf d. Grundlage d. projektiven Geometrie." 175 ill. 2 vols. \$6.53.

Terebesi, P. *Rechenschablonen fuer harmonische Analyse u. Synthese nach C. Runge.* Wissenschaftl. Erlaeuterungen. (Ill. 13 Beispieltafeln, dazu 26 Rechenschablonen, 2 Rechenbeispiele u. 2 Kontrollblaetter, sowie 1 Gebrauchs-anweisung) Mappe \$4.32.

Van Der Waerden, B. L. *Moderne Algebra.* Unter Benutzung v. Vorlesungen von Artin & Noether. Pt. II. \$3.96.

Weyl, Hermann. *Gruppentheorie und Quantenmechanik.* 2nd ed. pp. xi+366. \$6.24.

CHEMISTRY

Beythien, A. *Laboratoriumsbuch fuer den Nahrungsmittelchemiker.* Ill. pp. xxiv+589. \$9.60.

Ergebnisse der Agrikulturchemie. Ein Jahrbuch fuer landwirtschaftliche Chemie. Vol. II. 1930. Ill. 196 pp. \$3.36.

Flury, F. & Zernik, F. *Schaedliche Gase, Daempfe, Nebel, Rauch- u. Staubarten.* Ill. \$14.16.

Koetschau, Rudolf. *Erdoel und verwandte Stoffe.* Ill. pp. vi+146. \$1.92.

Krczil, Franz. *Untersuchung u. Bewertung technischer Adsorptionsstoffe.* 280 ill. pp. x+504. \$7.20.

Ostwald, W. O. *Kolloidwissenschaft, Elektrotechnik u. Heterogene Katalyse.* Ill. 113 pp. \$1.20.

Rabald, Erich. *Werkstoffe.* Physikalische Eigenschaften u. Korrosion. 2 Bde. Ill. pp. xxx+1368. \$32.40.

CHEMISTRY—Continued

Von den Kohlen u. den Mineraloelen. Ein Jahrb. f. Chemie u. Technik d. Brennstoffe u. Mineraloel. Ed. by the Fachgruppe f. Brennstoff- u. Mineraloel-Chemie d. Vereins Dt. Chemiker. Vol. 3. 1930. 41 plates. 106 ill. 238 pp. \$4.32.

Wolf, Ludwig. *Grundruege d. anorganischen Chemie.* Ein kurzgef. Hilfsbuch u. Repetitorium f. Studierende d. Naturwiss., Medizin u. Pharmazie. 2nd ed. Ill. pp. viii+230. \$1.92.

ASTRONOMY

Henze, Hermann. *Ergebnisse der Niederschlags-Beobachtungen im Jahre 1929.* pp. xiii+40. \$1.68.

Internationales Meteorolog. Komitee. Kommission f. d. Studium d. Wolken. Internat. Atlas d. Wolken u. Himmelsansichten. Ausz. zum Gebr. f. d. Beobachter aus d. vollst. Ausg. Paris: Office nat. meteorologique. pp. II. 42. 41 plates. Mappe \$2.88.

Suering, Reinhard. *Ergebnisse der Meteorolog. Beobachtungen in Potsdam im Jahre 1929.* pp. iv+84. \$3.36.

GEOLOGY—GEOGRAPHY

Cohn-Weiner, Ernst. *Turan.* Islamische Baukunst in Mittelasiien. 47 pp. 76 plates. \$19.20.

Gradmann, Robert. *Sueddeutschland.* 2 vols. Ill. 768 pp. \$10.56.

Lentz, Franz. *Aus dem Hochlande der Maya.* Bilder u. Menschen an meinen Wegen durch Guatemala. 16 plates. 106 ill. pp. xv+486. \$5.76.

Rohde, Hans. *Die deutsche Auslands- u. Meeresforschung seit dem Weltkriege.* 162 ill. pp. xii+336. \$3.60.

Scupin, Hans. *Die Nordsudetische Dyas.* Eine stratigraphisch-palaeogeogr. Untersuchung. Ill. pp. vii+245. (Fortschritte d. Geologie u. Palaeontol. IX H. 27) \$7.20.

BOTANY

Brand, A. *Borraginaceae-Borraginoideae-Cryptanthae.* Ill. 236 pp. (Engler, Das Pflanzenreich. H. 97) \$8.63.

Hegi, Hustav. *Illustrierte Flora von Mittel-Europa.* Mit bes. Beruecks. v. Deutschland, Oesterreich u. d. Schweiz. Zum Gebr. in d. Schulen u. zum Selbstunterricht. Vol. 7. Gesamtregister, ed. by Hegi-Kugler-Lutz-Schlumpf. pp. vi+561. \$8.88.

Neger, Franz. *Die Laubhoelzer.* Kurzgefasste Beschreibung der in Mitteleuropa gedeihenden Laubbaeume u. Straeucher. 2nd ed. Ill. 160 pp. \$-.45.

Schiemann, Elisabeth. *Geschlechts- u. Abkreuzungsfragen bei Fragaria.* Ill. 112 pp. (Botan. Abhandlungen No. 18). \$3.60.

Stoll, Ferdinand. *Tier- und Pflanzenleben am Rigaschen Strande.* \$1.44.

Strasburger, E. *Lehrbuch der Botanik fuer Hochschulen.* 18th ed. Ill. 640 pp. \$4.80.

Wengenmayr, Xaver. *Exkursionsflora fuer das Allgaeu u. sein Vorland bis zur Linie Memmingen-Mindelheim-Kaufering, samt dem bayerischen Bodenseegebiet.* Ein Taschenbuch z. Bestimm. d. in diesem Gebiete wildwachsenden Phanerogamen u. Gefaesskryptogamen nebst Angabe ihrer Verbreitung. pp. xv+483. \$1.44.