

TRANSFER LIQUIDS QUICKLY, EASILY Automatically

Self-Starting SIPHON PUMP—7 FT. LONG

FACTORIES . . . CHEMISTS . . . LABORATORIES . . . PROCESSORS—DOCTORS

New large-size model with Ball Check Valves of a Polyethylene composition highly resistant to chemicals such as HYDROCHLORIC, SULPHURIC and HYDROFLUORIC acids, as well as ALCOHOLS and most SOLVENTS. Siphon or Pump liquids quickly from heavy Carboys, Drums, or Containers without lifting or moving; and with less danger of spilling.

\$4.95 p.p.d.

STANDARD MODEL \$3.50
6 ft. long. Lucite Valves for dilute acids & inorganic solutions. Empty clogged sinks, drains, traps, aquariums & inaccessible. Carry in car & boat for emergency. Handy when closing Summer Homes for removing water from Pipes, Trans. etc.

NO NEED TO APPLY TO MOUTH
simply squeeze bulb 2 or 3 times.
Money Back Guarantee

MERIDIAN CO. 366 Madison Ave., Dept. S-321, New York 17

Tiny Microphone & Earphone

Almost Invisible. Listen to radio, TV. Phone in private. Secretly "Pick Up" Sounds in other rooms. Flesh colored, hearing-aid style phone. Plugs in ear. Wear walking, in bed, working. Also used as microphone. Crystal element. High sensitivity. Use with any radio, TV, phone, amplifier, etc. Regularly \$7.50. **New Imported \$1.98**

Model Only

Johnson Smith Co., Dept. 629 Detroit 7, Michigan

MEMO TO WRITERS:

The priceless ingredients in every book is the integrity of the publisher. If we are convinced of the quality and sales potential of your manuscript, we will offer you a fair cooperative contract. Publication will be handled by men of vision and experience.

Submit your manuscript to:
THE AMERICAN PRESS

Attn: Mr. OHM, 489 Fifth Ave., N.Y., N.Y.

MATHEMATICS FOR EVERYMAN

From Simple Numbers to the Calculus by EGMONT COLERUS

Egmont Colerus is one of that all-too-small band of gifted teachers who know how to COMMUNICATE mathematics.

Once caught in his "trap" there is no escape—one is compelled to go on at least as far as the calculus, with fascinating glimpses of mathematical history and philosophy along the way.

Little or no previous knowledge of mathematics is assumed. Every point is illustrated with an example. Such is Colerus' talent that long before the reader knows what is happening, he finds, amazingly, that he has acquired a ready grasp of the fundamentals of mathematical operations and mathematical reasoning. More, some of the magic the greatness, the beauty of the science has somehow rubbed off onto him, to his permanent enrichment.

PARTIAL CONTENTS: Numbers • The System of Tens • Other-Number Systems • Symbols and Commands • Arrangement • Permutation • Combination • Other Kinds of Arrangement • First Steps in Algebra • Fractions • Equations • Negative and Fractional Powers • Irrational Numbers • Generalized Decimal Fractions • Algebraic Functions • The Theorem of Pythagoras • Functions of Angles • Imaginary and Complex Numbers • Co-ordinates • Analytical Geometry • Squaring the Circle • Calculating the Lengths of Curves • Differentials and Integrals • Three Kinds of Smallness • The Binomial Theorem • Archimedes' Quadrature of the Parabola • Series • The Technique of Differentiation • Mean Value and Definite Integrals • Problems of Area • Logarithms • Interpolation, Extrapolation • Conclusion. Illustrations throughout.

ORDER NOW!

MATHEMATICS FOR EVERYMAN
by Egmont Colerus

\$3.95 Postfree • 10-Day Money-Back Guarantee

EMERSON BOOKS, Inc., Dept. 275-L
251 West 19th Street, New York 11

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

ADVENTURES IN MEDICAL EDUCATION: A Personal Narrative of the Great Advance of American Medicine—G. Canby Robinson—*Harvard Univ. Press* for the Commonwealth Fund, 338 p., illus., \$5. A history of medicine in this country from the colonial days when doctors were trained as apprentices through the days when great medical schools were built up.

ANIMAL BEHAVIOR—John Paul Scott—*Univ. of Chicago Press*, 281 p., illus., \$5. The general reader, student or animal lover can here learn what scientists have found out about behavior of various kinds of animals.

BASIC FACTS ABOUT MENTAL ILLNESS—Harry Milt, foreword by George S. Stevenson—*Science and Health Pub.* (Mental Health Materials Center), 31 p., paper 50¢. Aid in recognizing when someone near to us needs psychiatric help.

THE CHEMISTRY AND BIOLOGY OF YEASTS—A. H. Cook, Ed.—*Academic*, 763 p., illus., \$22. Presented by a number of authors, each concerned with research in a special area of the field.

CONSERVATION EXPERIENCES FOR CHILDREN—Effie G. Bathurst and Wilhelmina Hill—*Govt. Printing Office*, Office of Education Bulletin 1957, No. 16, 192 p., illus., paper, 75¢. Reporting how teachers are helping boys and girls learn about our natural resources.

ELEMENTS OF CLASSICAL THERMODYNAMICS FOR ADVANCED STUDENTS OF PHYSICS—A. B. Pippard—*Cambridge Univ. Press*, 165 p., illus., paper \$2.75, cloth \$4.75. For the advanced student.

ELEMENTS OF MODERN ABSTRACT ALGEBRA—Kenneth S. Miller—*Harper*, 188 p., \$5. For upper class mathematics majors or graduate students.

ENGINEERING MATERIALS HANDBOOK—Charles L. Mantell, Ed. in Chief—*McGraw-Hill*, 1936 p., illus., \$21.50. Emphasis on the fabricated forms of materials, their physical and mechanical properties, advantages and limitations.

FOUNDATIONS OF SCIENCE: The Philosophy of Theory and Experiment—Norman Robert Campbell—*Dover*, 565 p., paper, \$2.95. A critique of fundamental concepts of science, particularly physics.

FUNDAMENTAL MATHEMATICS: A Text and Workbook—Leslie H. Miller—*Holt*, 323 p., paper, \$3.50. Reviews arithmetic and algebra and presents some topics from geometry and

trigonometry. Treats the student as a mature individual.

GENERAL DIAGNOSIS AND THERAPY OF SKIN DISEASES: An Introduction to Dermatology for Students and Physicians—Hermann Werner Siemens, translated from the German by Kurt Wiener—*Univ. of Chicago Press*, 324 p., illus., \$10. Presenting basic principles illustrated with photographs taken at the skin clinic of the University of Leiden, Holland.

THE LONGEVITY AND MORBIDITY OF COLLEGE ATHLETES—Henry J. Montoye and others—*Phi Epsilon Kappa Fraternity*, 139 p., illus., paper, \$3.25. No appreciable difference was found between athletes and non-athletes in length of life. An interesting difference was that a disproportionately large number of former baseball players chew tobacco while cross-country runners smoke pipes.

METHOD AND THEORY IN AMERICAN ARCHAEOLOGY—Gordon R. Willey and Philip Phillips—*Univ. of Chicago Press*, 270 p., \$4.75. Concerning especially American archaeology.

PRINCIPLES OF PERCEPTION—S. Howard Bartley—*Harper*, 482 p., illus., \$6.50. For beginning students.

SEA TEMPERATURE IN THE GULF OF ALASKA AND IN THE NORTHEAST PACIFIC OCEAN—Margaret K. Robinson—*Univ. of Calif. Press*, 98 p., illus., paper, \$2. At depths of 200, 300, and 400 feet coldest temperatures frequently occur in summer rather than in winter.

SOCIAL CHANGE IN THE SOUTH PACIFIC: Rarotonga and Aitutaki—Ernest Beaglehole—*Macmillan*, 268 p., \$6.50. These Pacific islands with homogeneous population received their first stimulus to social change when missionaries introduced Christianity. What has happened to the natives since is the theme of this book.

TUNNEL IN THE DESERT: An Underground Venture in Education—William H. Carr—*Arizona-Sonora Desert Museum*, 34 p., illus., paper, 60¢. Describing a novel museum underground designed so that the public can see what desert creatures do when they are hiding away from the hot desert sun.

VALUES IN A UNIVERSE OF CHANCE: Selected Writings of Charles S. Peirce—Philip P. Wiener, Ed.—*Stanford Univ. Press*, 446 p., paper \$1.25, cloth \$3.95. Some of the selections are previously unpublished.

VAN NOSTRAND'S SCIENTIFIC ENCYCLOPEDIA—Leo A. Aroian and others, Eds.—*Van Nostrand*, 3d ed., 1839 p., illus., \$26.85 until March 17, \$30. thereafter. Explaining 15,000 terms of fundamental interest. Arranged alphabetically for convenient reference.

Science News Letter, February 1, 1958

LINGUAPHONE
MAKES IT EASY TO LISTEN and LEARN to Speak

SPANISH (American or European) • FRENCH
GERMAN • ITALIAN • JAPANESE
MODERN GREEK • ICELANDIC

—34 LANGUAGES AVAILABLE AT HOME

Only LINGUAPHONE, The World's Standard Conversational Method, brings you 8 to 12 of the world's best native language teachers into your home. You listen to Linguaphone's life-like, conversational recordings for 20 minutes a day and learn another language—the same easy, natural way you learned to speak long before you went to school.

You listen . . . You hear native men and women converse about up-to-date, everyday matters. You Understand. You SPEAK. It's Like Living in Another Land.

Exciting Business, Travel Opportunities Here and Abroad. World-Wide endorsement by educators, government, business. Over a million home-study students have learned another language this ideal way.

Stop Wishing—Start Talking! Send for FREE Book and Details of FREE TRIAL. Linguaphone Institute, T-31-028 Radio City, New York 20, N. Y.

ROCK CHARTS

These various Rock Charts are visual aids for elementary courses in rock and mineral study. They are practical standard equipment in laboratories and libraries devoted to geology study.

ROCK CHART FOR IGNEOUS ROCKS. Price \$11. Size 14 x 22" and contains 77 of all major types of igneous rocks. With the aid of this Chart the untrained person can identify almost any igneous rock and at a glance understand its relationship to all other igneous rocks. **ROCK CHART FOR SEDIMENTARY ROCKS.** 14 x 22" 40 specimens. \$10. **ROCK CHART FOR METAMORPHIC ROCKS.** 14 x 22", 82 specimens. \$9. **ROCK CYCLE CHART.** 14 x 27" \$8.00. **CHART "CHEMISTRY OF THE ROCKS."** 14 x 27", \$15.00

Dept. SNL

110 E. Main St. Florence, Colorado

ECKERT MINERAL RESEARCH PROSPECTORS SUPPLIES

