

THE EYE REMEMBERS—THE EAR FORGETS!

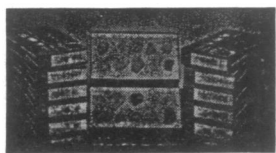
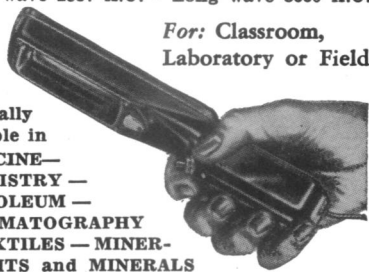
Take advantage of this truism by teaching scientific principles with

MINERALIGHT

Short wave 2537 A.U. - Long wave 3660 A.U.

For: Classroom, Laboratory or Field

Especially valuable in
MEDICINE—
CHEMISTRY —
PETROLEUM —
CHROMATOGRAPHY
— TEXTILES — MINERALIGHTS and MINERALS



Ideal for mineralogy students. Beautifully packaged fluorescent minerals. 10 identified specimens in each package. 10 select packages for easy visual study. Includes 24-page booklet on fluorescent minerals.

Write for Mineralight catalog, bulletin N "The Ultra-Violet Lamp in Education" and folder on fluorescent minerals.

ULTRA-VIOLET PRODUCTS, Inc.
 145 Pasadena Ave., South Pasadena, Cal.

The New Electro-Magnetic

DORMIPHONE

YESTERDAY—SCIENCE FICTION
TODAY—ASTOUNDING REALITY! A Great Scientific Discovery

A REVOLUTIONARY All-in-One Invention for

- Faster Learning
- Magnetic Home Recording
- Superb Listening Enjoyment
- Memory Training



Today, for the first time, an ingenious device does for you what no machine has ever done before! The invention of the ELECTRO-MAGNETIC DORMIPHONE by Max Sherover, president of Lingaphone Institute, ends a ten-year search for the perfect multi-purpose machine. Would you like to increase your rate of learning 20% to 50% by making use of periods of relaxation and sleep? Now it is easy; you can master a new language, improve your speech, memorize a role in a play, learn useful facts and figures with less time, less effort. Would you like to make your own recordings at home—without spools or wire or tape... all these uses in addition to more listening pleasure out of your favorite records makes the new all-in-one Dormiphone the most versatile, 3-speed, portable phonograph ever assembled!

FIND OUT ABOUT ELECTRO-MAGNETIC DORMIPHONE

Proof of what the New ELECTRO-MAGNETIC DORMIPHONE can do for you is fully set forth in a FREE Booklet, "A New Dimension in Learning." Write today. DORMIPHONE, MODERNOPHONE, INC., 125-09 RCA Building, New York 20, N. Y.

MAIL COUPON NOW

MODERNOPHONE, INC. (Dormiphone Div.)
 125-09 RCA Building, N. Y. 20, N. Y.

Gentlemen: Please send me your FREE Booklet, "A New Dimension in Learning."

If under 17, check here for Special Booklet A.

Name

Address

City..... Zone.... State.....

My main interest in Dormiphones is for

Learning a Language Speech Improvement

Memorization Home Recording

Listening Enjoyment

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.

AMERICAN NURSING: History and Interpretation—Mary M. Roberts—*Macmillan*, 688 p., illus., \$6.00. The editor of the *Journal of Nursing* writes this account of the profession for the 50 years covered by that periodical.

BEGINNING FARMERS: A Vulnerable Group in American Agriculture—Robert K. Buck—*National Planning Association*, Planning Pamphlet No. 88, 28 p., paper, 50 cents. The million young families who have begun farm careers since the war have special need for help, particularly in better training in management of farms.

THE DESIGN AND USE OF INSTRUMENTS AND ACCURATE MECHANISM: Underlying Principles—T. N. Whitehead—*Dover*, 2nd ed., 283 p., illus., cloth \$3.95, paper \$1.95. Written primarily for designers of instruments and for those who use them.

DESIGN OF FLEXIBLE PAVEMENTS: Presented at the Thirty-Third Annual Meeting, January 12-15, 1954—Fred Burggraf and W. J. Miller, Eds.—*Highway Research Board*, Research Report 16-B, 77 p., illus., paper, \$1.05. Describ-

ing actual experiences with pavements built in accordance with the different methods of design.

A DEVOTION TO NUTRITION—Frederick Hoelzel—*Vantage*, 88 p., \$2.50. The author gained prominence at an early age for his exceptionally long fasts. He is now assistant in physiology at the University of Chicago.

DICTIONARY OF INTELLECTUAL PROPERTY—A. John Michel and Kurt Kelman—*Research, Patents & Trademarks*, 352 p., \$12.00. Definitions of terms used in applying for patents, trademarks, etc., and also information about the laws. Under "Title," for example, is the information that titles of books cannot be copyrighted.

DOWN TO THE SHIPS IN THE SEA—Harry Grossett—*Lippincott*, 256 p., illus., \$3.75. Exciting experiences of the author who has been a deep sea diver for 50 years and who, at the age of 70, is still diving. The author also describes modern improvements in diving and submarine rescue methods.

ELEMENTARY TEACHERS GUIDE TO FREE CURRICULUM MATERIALS—Patricia A. Horkheimer, Paul T. Cody, and John Guy Fowlkes, Eds.—*Educators Progress Service*, 11th ed., 332 p., paper, \$5.50. New titles, 454 of the 1,256 listed, are marked with an asterisk.

ELEMENTS OF NUMBER THEORY—I. M. Vinogradov, translated from the fifth revised edition by Saul Kravetz—*Dover*, 227 p., cloth \$3.00, paper \$1.75. Provides a detailed "first course" in number theory without resorting to advanced mathematics. First English edition.

EMOTIONS AND BODILY CHANGES: A Survey of Literature on Psychosomatic Interrelationships 1910-1953—Flanders Dunbar—*Columbia University Press*, 4th ed., 1192 p., \$15.00. During the recent decades of specialization, many of the most vital problems have developed in the no-man's land of "between fields." Now new specialties, among them psychosomatic medicine, have grown up to study such problems.

THE FERNS AND FERN ALLIES OF MINNESOTA—Rolla M. Tryon Jr.—*University of Minnesota Press*, 166 p., illus., cloth \$4.00, paper \$2.75. A handbook of identification describing the 92 different kinds of ferns that are native to Minnesota, and telling how to collect and preserve specimens.

FIBERGLAS REINFORCED PLASTICS—Ralph H. Sonneborn, Albert G. H. Dietz and Alton S. Heyser—*Reinhold*, 240 p., illus., \$4.50. Technical information about a new building material.



EARNED \$400 FIRST YEAR

"Last year I made around \$400 and it was the first year I started to write. Your course is the best way to get expert instruction in professional writing."—T. Edward Karlsson, 224 East 79th St., New York, N. Y.

How Do You Know You Can't Write?

HAVE you ever tried?
 Have you ever attempted even the least bit of training, under competent guidance?

Or have you been sitting back waiting for the day to come when you will awaken all of a sudden to the discovery "I am a writer?"

If the latter course is the one of your choosing, you probably never will write. Lawyers must be law clerks. Doctors must be interns. Engineers must be draftsmen.

That is why the Newspaper Institute of America bases its writing instruction on journalism—continuous writing—the training that has produced so many successful authors.

Learn to write by writing

Newspaper Institute's New York Copy Desk Method starts and keeps you writing in your own home. Your writing is individually corrected and constructively criticized. Under such sympathetic guidance, you will find that you are rapidly creating your own distinctive, self-flavored style.

Many potential writers become awestruck by fabulous stories about millionaire authors and, therefore, give little thought to the \$25, \$50 and \$100 or more that can often be earned for material that takes little time to write—stories, articles on science, scientific papers, sports, local, church and club activities, etc.—things that can easily be turned out in leisure moments.

A Chance to test yourself—FREE!

Our unique Writing Aptitude Test tells whether you possess the fundamental qualities necessary to successful writing. You'll enjoy taking this test. The coupon will bring it FREE without obligation. Newspaper Institute of America, (One Park Ave., New York 16. (Founded 1925) (Licensed by State of New York.)

FREE NEWSPAPER INSTITUTE OF AMERICA
 One Park Avenue, New York 16, N. Y.

Send me without cost or obligation, your FREE Writing Aptitude Test and further information about writing for profit.

Mr. }
 Mrs. }
 Miss }
 Address

City..... Zone.... State.....
 (All correspondence confidential. No salesman will call on you.)

Check here if Veteran. 117-P-804

Copyright 1953 Newspaper Institute of America

STOP BEING CONFUSED!

Free BOOK

BUSHNELL Binoculars

New Book tells all about High Power **BINOCULARS**

Know BEFORE you buy

Finest Precision Optics
 A Million Thrills
 33 Models \$9.95 to \$125
 Guaranteed Savings
 Ask for Dealer's Name
 Dept. 876 43 E. Green
 Pasadena, Calif.

FILL OUT! Mail TODAY!

NAME _____

ADDRESS _____

CITY _____ STATE _____



FORERUNNERS TO EVEREST: The Story of the Two Swiss Expeditions of 1952—René Dittert, Gabriel Chevalley and Raymond Lambert, translated by Malcolm Barnes—*Harper*, 256 p., illus., \$4.00. Sir John Hunt in the preface acknowledges the debt of the British climbers to their Swiss predecessors of 1952.

THE GEOMETRY OF RENE DESCARTES: With a Facsimile of the First Edition 1637—Translated by David Eugene Smith and Marcia L. Latham—*Dover*, 243 p., illus., cloth \$2.95, paper \$1.50. This new edition provides an opportunity for students to study both the original of this classic and the Smith-Latham translation.

A HISTORY OF MECHANICAL INVENTIONS—Abbott Payson Usher—*Harvard University Press*, Revised ed., 450 p., illus., \$9.00. Acknowledging the debt of the Western World to early China.

LIGHTING HANDBOOK—*Westinghouse Electric Corporation*, rev. ed., 250 p., illus., paper, ring binding, \$2.50. Data in a convenient form for engineers, architects, and electrical contractors.

THE MAN IN THE THICK LEAD SUIT—Daniel Lang—*Oxford University Press*, 207 p., \$3.50. These chapters, originally published in the *New Yorker*, were written by a layman for other laymen to tell them how some Americans have learned to live with the atomic bomb. The

"thick lead suit" is a symbol for the limitations of human imagination which mercifully prevent a man from full realization of the meaning of modern and future weapons.

ON THE SENSATIONS OF TONE AS A PHYSIOLOGICAL BASIS FOR THE THEORY OF MUSIC—Hermann L. F. Helmholtz, Translated and revised for music students by Alexander J. Ellis—*Dover*, 2nd ed., 576 p., illus., \$4.95. This classic is reprinted more than 90 years after its first publication.

PEOPLE TO PEOPLE DIPLOMACY: An Approach to a Peaceful World on a Person-to-Person Basis—International Educational Exchange Service—*Govt. Printing Office*, Department of State Publication 5492, 29 p., illus., paper, 20 cents. During the past year there were 7,121 exchanges with over 70 countries of the free world. Two-thirds of the persons came to the United States to study, teach or to do research work.

PLASTICS ENGINEERING HANDBOOK—The Society of the Plastics Industry, Inc.—*Reinhold*, 2nd ed., 813 p., illus., \$15.00. This new edition has been expanded to nearly twice the size of the earlier one.

THE SOCIAL BACKGROUND OF POLITICAL DECISION-MAKERS—Donald R. Matthews—*Double-day*, Doubleday Short Studies in Political Science, 71 p., paper, 95 cents. In spite of the

tradition that any American boy can become President, only four percent of our presidents, vice-presidents and cabinet officers have been the sons of wage earners or laborers, but 38% have been the sons of farmers and an equal proportion, sons of professional men.

Science News Letter, September 11, 1954

MATH IS FUN

By Joseph Degrazia, Ph.D.

Here is a treasury of brain-teasers. You need not be a mathematical genius to solve these problems and puzzles. What you need is to know how to THINK LOGICALLY—how to REASON. This is practically a "course" in applied logic and reasoning—besides being an immense amount of fun that will keep you absorbed for many hours. You will find not only that MATH IS FUN, but also that learning math can be fun!

CONTENTS: Trifles—On the Borderline of Mathematics—Faded Documents—Cryptograms—How Old Are Mary and Ann?—Wolf, Goat and Cabbage—and Other Odd Coincidences—Clock Puzzles—Trouble Resulting from the Last Will and Testament—Speed Puzzles—Railroad Shunting Problems—Agricultural Problems—Shopping Puzzles—Whimsical Numbers—Playing with Squares—Miscellaneous Problems—Problems of Arrangement—Problems and Games—Solutions. Many delightful and helpful illustrations

Solutions where needed

Large Book • 159 Pages • 159 Hours of Fun
\$2.75 • 5-Day Money-Back Guarantee

EMERSON BOOKS, Inc.
Dept. 163-K, 251 W. 19 St., N. Y. 11

WHERE TO RETIRE TODAY and AFFORD IT

3 books that give you the facts on where you can retire today on the money you've got

Where Will You Go In Florida?

Florida needn't be expensive—not if you know just where to go for whatever you seek in Florida. And if there's any man who can give you the facts you want, it's Norman Ford, founder of the world-famous Globetrotters Club. (Yes, Florida is his home whenever he isn't traveling!)

His big book, *Norman Ford's Florida*, tells you first of all, road by road, mile by mile, everything you'll find in Florida, whether you're on vacation, or looking over job, business, real estate, or retirement prospects.

Through his experienced advice you learn exactly where you can retire now on the money you've got, whether it's a little or a lot. (If you need a part-time or seasonal job to help out your income, he tells you where to pick up extra income.) Because Norman Ford always tells you where life in Florida is pleasantest on a small income, he can help you take life easy now.

If you're going to Florida for a job with a future or a business of your own, his talks with hundreds of business men and state officials, etc., lets him pinpoint the towns you want to know about. If you've ever wanted to run a tourist court or own an orange grove, he tells you today's inside story of these popular investments.

Yes, no matter what you seek in Florida, this big book (with well over 100,000 words and plenty of maps) gives you the facts you want. Price—only \$2, only a fraction of the money you'd spend needlessly if you went to Florida blind. Use coupon to order.

BARGAIN PARADISES OF THE WORLD

West Indies, Mexico, Californias Abroad
This is a book on how to double what your money can buy. For that is what spending

a few weeks or months, or even retiring, in the world's Bargain Paradises amount to. And why not when you can retire to the:

Azores or the Canaries—islands of tropical flowers, sandy beaches, and the charm of Old Spain—with rents of about \$20 a month, groceries for a couple at \$10 a week, and servants \$5 a month each.

The lotus-covered mountain lakes of Kashmir, where a furnished houseboat with four turbaned servants rents for \$70 a month. Total costs for a couple run about \$175 a month—in the most beautiful spot on earth.

The South Seas? Tahiti has found out about the Yankee dollar. But there's brilliant Sigatoka Beach at Suva or reef-girt Norfolk or Lord Howe Island, the Bargain Paradises of the South Seas today.

Throughout this big book you learn where to spend a while in the West Indies, Mexico (where living costs dropped 33% when the peso was devalued last spring), South America (today's bargain counter for Americans), the healthful islands of the South Seas, the wonderlands of New Zealand, the marvelous Balearic Islands where two can live like kings for less than \$35 a week.

You read about cities and towns where it's always spring, about "Californias Abroad," about "Four Modern Shangri-Las," about mountain hideaways, tropical islands as colorful as Tahiti but nearer home, about modern cities where you can live for less, about quiet country lanes and surf-washed coastal resorts.

If you've ever wanted to travel but wondered how you could afford it; if you have a little income but wonder how you'd ever be able to retire on that; if you want a life of luxuries on what you'd get only necessities back home, then you want this book, *Bargain Paradises of the World*.

96 photos, 4 maps. 1954 edition. Price \$1.50.

WHERE TO RETIRE ON A SMALL INCOME

This book selects out of the hundreds of thousands of communities in the U. S. and its island territories only those places where living costs are less, where the surroundings are pleasant, and where nature and the community get together to guarantee a good time from fishing, boating, gardening, concerts, or the like. The book never overlooks the fact that some people must get part-time or seasonal work to pad out their income.

It covers cities, towns, and farms throughout America—from New England south to Florida, west to California and north to the Pacific Northwest. It includes both Hawaii and the American Virgin Islands. Some people spend hundreds of dollars trying to get information like this by travelling around the country. Frequently they fail—there is just too much of America to explore.

Where to Retire on a Small Income saves you from that danger. Get the big 1954 edition costs only \$1.

Mail this coupon for prompt delivery

Mail to HARIAN PUBLICATIONS
15 Scranton St.,
Greenlawn (Long Island), N. Y.

I have enclosed \$..... (cash, check, money order). Please send me the books I checked below. You will refund my money if I am not satisfied.

- Bargain Paradises of the World. \$1.50
- Where to Retire on a Small Income. \$1
- Norman Ford's Florida. \$2.

Special offer: all books above (\$4.50 value) for \$4.

Print Name

Address

City & State