

# NEW BOOKS ON SCIENCE

Science News Letter presents a comprehensive list of scientific books published or to be published between January 1 and June 30, 1941. All information is believed to be correct but is not guaranteed. Prices are listed where known. Prices marked \* are tentative.

## Aeronautics

- ABC OF AVIATION, rev. ed.—Victor W. Page—*Henley*, \$2.50.  
 AERODYNAMICS OF THE AIRPLANE—Millikan—*Wiley*.  
 AERONAUTICS IN THE UNION AND CONFEDERATE ARMIES, Vol. I—F. S. Haydon—*Johns Hopkins*, \$4.  
 AEROPANE INSTRUMENTS, Part II—E. Molloy—*Chem. Pub.*, \$2.  
 AIR RAID DEFENSE—Curt Wachtel—*Chem. Pub.*, \$3.50.  
 AIRCRAFT SHEET METAL WORK, Vol. I—H. E. Boggess—*Pitman*, \$1.25.  
 AIRPLANE DRAFTING — Brimm — *International Textbook*, \$3.50.  
 AIRPLANE SERVICING MANUAL, rev. ed. — Victor W. Page—*Henley*, \$6.  
 ALL AMERICAN AIRCRAFT — E. K. Gann — *Crowell*, \$2.  
 AMERICAN AVIATION DIRECTORY, 1941—David Shawe, ed.—*Amer. Aviation Associates*, \$3.  
 AVIATION ENGINE LUBRICATION AND MAINTENANCE CHART—Page—*Henley*, 50c.  
 AVIATION ENGINE TROUBLE CHART — Victor W. Page—*Henley*, 50c.  
 AVIATION FROM SHOP TO SKY—J. J. Floherthy—*Lippincott*, \$2.  
 AVIATION MECHANIC—Carl Norcross and J. D. Quinn—*McGraw*, \$3., \$3.50.  
 BUILDING AND FLYING MODEL AIRPLANES — Air Youth of Amer.—*Appleton*, \$2.  
 CIVIL AIR DEFENSE—A. M. Prentiss—*Whittlesey*.  
 FLIGHT, A GENERAL SURVEY OF FUNDAMENTALS OF AVIATION—Bailey Wright, J. J. Smiley Jr. and Rex Martin—*Amer. Tech. Soc.*, \$2.50.  
 FLIGHT, CONSTRUCTION AND MAINTENANCE—Bailey Wright, W. E. Dyer and Rex Martin—*Amer. Tech. Soc.*, \$2.50.  
 FLIGHT, NAVIGATION—Bailey Wright and Rex Martin—*Amer. Tech. Soc.*, \$3\*.  
 FLYING FLEETS — S. Paul Johnston —*Duell*, \$2.50.  
 FLYING INSTRUCTION — Walter Bartky, ed.—*U. Chicago*.  
 HORIZONS UNLIMITED — S. Paul Johnston — *Duell*, \$3.75.  
 INTRODUCTION TO AVIATION — J. P. Eames —*Chem. Pub.*, \$3.50.  
 MODERN FLIGHT—Cloyd P. Clevenger—*Noble and Noble*, \$2.95.  
 MOLD-LOFT WORK—Halliburton—*International Textbook*, \$2.15.  
 PRELIMINARY AIRPLANE DESIGN—R. C. Wilson—*Pitman*, \$1.  
 THE R. A. F. IN ACTION—*Macmillan*, \$2.  
 SIMPLIFIED AERIAL NAVIGATION BY DEAD RECKONING — J. A. McMullen—*Chem. Pub.*, \$2.50.  
 SO YOU'RE GOING TO FLY—J. L. H. Peck—*Dodd*, \$2.50.  
 WINGED WARFARE—H. H. Arnold and Ira C. Eaker—*Harper*, \$3.  
 YOUTH IN AVIATION—Air Youth of Amer.—*Appleton*, \$2.50.

## Agriculture, Horticulture

- A BOOK OF GARDEN FLOWERS—Margaret McKenny—*Macmillan*, \$2.

- COLONIAL FOREST ADMINISTRATION — R. S. Troup—*Oxford U.*, \$9\*.  
 COMMERCIAL FERTILIZERS, 3d ed.—G. H. Collings—*Blakiston's*.  
 COMMERCIAL FLOWER FORCING, 3d ed.—A. Laurie and G. H. Poesch—*Blakiston's*.  
 THE COMPLETE BOOK OF GARDEN MAGIC — Roy E. Biles—*Ferguson*, \$3.  
 CONSERVATION OF RENEWABLE NATURAL RESOURCES—Raphael Zon and others—*U. Penn.*, \$2\*.  
 DAIRY CATTLE, 3d ed.—Yapp and Nevens—*Wiley*.  
 DO YOU KNOW YOUR GARDEN? — G. M. Goshorn—*Oxford*, \$2.50.  
 ELEMENTARY MANUAL OF INDIAN FOREST UTILIZATION — H. Trotter — *Oxford U.*, \$7.50\*.  
 FARM ANIMALS: THEIR BREEDING, GROWTH AND INHERITANCE — J. Hammond — *Longmans*, \$4.50.  
 FARM BUILDINGS, 3d ed.—Carter and Foster—*Wiley*.  
 FARM SOILS, 3d ed.—Worthen—*Wiley*.  
 FIVE ACRES AND INDEPENDENCE, rev. ed. — M. G. Kains—*Greenberg*, \$2.50.  
 FORESTRY IN FARM MANAGEMENT—Westveld and Peck—*Wiley*, \$3.  
 GARDEN CLUBS AND SPADES—Laurence McKinney—*Dutton*, \$1.  
 GARDENING FOR YOUNG PEOPLE—M. G. Kains—*Greenberg*, \$1.50.  
 THE GLADIOLUS—F. T. McLean—*Whittlesey*, \$2.  
 GROWING TREE AND SMALL FRUITS, 2d ed.—H. B. Knapp and E. C. Auchter—*Wiley*, \$2.75.  
 HORTUS SECOND, rev. ed.—L. H. Bailey and Ethel Z. Bailey—*Macmillan*, \$12.  
 HYDROPONICS (Food Without Soil)—C. Isabel Hilyer—*Penguin Books*, 25c.  
 I LIKE GARDENING—Jean Hersey—*Hale, Cushman and Flint*, \$2.  
 MAINTENANCE OF SHADE AND ORNAMENTAL TREES—P. P. Pirone—*Oxford*, \$4.  
 MODERN FRUIT PRODUCTION—J. H. Gourley and F. S. Howlett—*Macmillan*, \$4.50.  
 NUT GROWERS HANDBOOK — C. D. Bush — *Judd*, \$1.75.  
 PLANTS IN THE HOME — Frank K. Balthis — *Macmillan*, \$3\*.  
 PRACTICAL GREENHOUSE CULTURE — T. H. Everett—*Macmillan*, \$3.50.  
 PRINCIPLES AND PRACTICE OF FEEDING FARM ANIMALS—E. T. Halnan and F. H. Garner — *Longmans*, \$4\*.  
 PRINCIPLES OF DAIRYING, 3d ed.—Judkins and Mack—*Wiley*.  
 PRUNING TREES AND SHRUBS—E. P. Felt—*Judd*, \$2.  
 SCIENCE IN THE GARDEN—H. B. Logan and J. M. Putnam—*Duell*, \$2.50.  
 SOIL MECHANICS—D. P. Krynine—*McGraw*, \$5.  
 SOILS AND SOIL MANAGEMENT—A. F. Gustafson—*McGraw*, \$3.  
 SUNSET'S VISUAL GARDEN MANUAL — Elsa Uppman—*Lane Pub.*, \$1.  
 TRY THESE INDOORS, A Handbook of Unusual House Plants—A. H. Wood, Jr. — *Hale, Cushman and Flint*, \$1.75.  
 WE WANTED A FARM—M. G. Kains—*Greenberg*, \$2.50.

YOUR GARDEN AND MINE — Ruth Cross — *Prentice-Hall*, \$2.50.

## Anthropology

- ANIMAL REMAINS FROM TELL ASMAR (Studies in Ancient Oriental Civilization, No. 20)—Max Hilzheimer; Trans. by A. A. Brux — *U. Chicago*.  
 ARIZONA INDIANS — Joseph Miller — *Hastings House*, \$1.  
 AZTECS OF MEXICO — George C. Vaillant — *Doubleday*, \$4.  
 A BIBLIOGRAPHY OF HUMAN MORPHOLOGY, 1914-39—W. M. Krogman—*U. Chicago*, \$3.  
 CEREMONIAL COSTUMES OF THE PUEBLO INDIANS—V. M. Roediger—*U. Calif.*, \$15.  
 THE EXCAVATION OF MEDINET HABU, III-IV. THE MORTUARY TEMPLE OF RAMSES III. Parts I-III. (Oriental Institute Publications, Vols. LIV-LV.)—Uvo Hölscher—*U. Chicago*.  
 EXCAVATIONS AT OLYNTHUS, Vol. X, Metal and Minor Miscellaneous Finds—D. M. Robinson—*Johns Hopkins*.  
 EXCAVATIONS IN THE FT. LIBERTE REGION, HAITI; CULTURE OF THE FT. LIBERTE REGION, HAITI—F. G. Rainey and Irving Rouse — *Yale*, \$3. (Pubs. in Anthropology, nos. 23 and 24, in one volume.)  
 THE GATES OF DREAMS, An Archaeological Examination of Vergil, Aeneid, VI, 893-899—E. L. Highbarger—*Johns Hopkins*, \$3.  
 INDIAN ART OF THE UNITED STATES—F. H. Douglas and René d'Harnoncourt—*Mus. of Modern Art*, \$2.75.  
 THE INDIANS OF THE WESTERN GREAT LAKES — W. Vernon Kinietz—*U. Mich.*, Bound, \$4; Paper, \$3.50.  
 INDUS VALLEY PAINTED POTTERY—R. F. S. Starr—*Princeton*, \$3.50.  
 IRAN IN THE ANCIENT EAST — E. Herzfeld — *Oxford*, \$40.  
 KABLOONA—Gontran de Poncins—*Reynal*, \$3.  
 KEY TO POTTERY AND GLASS—Bernard Rackham—*Chem. Pub.*, \$2.25.  
 PUEBLO INDIANS OF NEW MEXICO, AS THEY ARE TODAY—David Hare—*Salloch*, \$36.  
 SIXTY YEARS OF INDIAN AFFAIRS, 1789-1850—G. D. Harmon—*U. N. Car.*, \$5.  
 TREE-RING ANALYSIS AND DATING IN THE MISSISSIPPI DRAINAGE — Florence Hawley — *U. Chicago*, \$1.50.  
 WINONA AND RIDGE RUIN—Pt. I, John C. McGregor, \$5.25; Pt. II, Harold S. Colton, \$1.75—*Northern Ariz. Soc. of Science and Art*.

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 THE STORY OF THE STARRY UNIVERSE—D. P. Todd—*Collier*.

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- ANIMAL BIOLOGY, 3d ed.—M. F. Guyer — *Harper*, \$3.75\*.  
 THE BEGINNINGS OF SOCIAL BEHAVIOR IN UNICELLULAR ORGANISMS—H. S. Jennings — *U. Penn.*, 50c.  
 BIOLOGICAL SYMPOSIA, Vol. II—Jaques Cattell, ed.—*Cattell Pr.*, \$2.50.  
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 THE GENETIC AND ENDOCRINE BASIS FOR DIFFERENCES IN FORM AND BEHAVIOR AS ELUCIDATED BY STUDIES OF CONTRASTED PURE-LINE DOG BREEDS AND THEIR HYBRIDS—C. R. Stockard and Collaborators—*Wistar Inst.*, \$7.50.  
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 MANUAL OF HUMAN CROSS SECTION ANATOMY—D. J. Morton, R. C. Truex and C. E. Kellner—*Williams & Wilkins*, \$6.  
 MECHANISMS OF BIOLOGICAL OXIDATIONS — D. E. Green—*Cambridge (Macmillan)*, \$2.75.  
 NATURE GAMES BOOK—Elmo N. Stevenson—*Greenberg*, \$2.50.  
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 NATURE NOTES — John Kieran — *Doubleday*, \$1.50.  
 PRINCIPLES OF ANIMAL BIOLOGY, 5th ed. — A. F. Shull—*McGraw*, \$3.50.



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- PROTOZOA IN BIOLOGICAL RESEARCH—G. N. Calkins and F. M. Summers, eds.—*Columbia*, \$10.  
 SCIENCE OF LIVING THINGS — C. G. Weymouth—*Holt*, \$1.80\*.  
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 THE DISEASES OF THE COCONUT PALM—H. R. Britton-Jones—*Williams & Wilkins*, \$3.50.  
 FLOWERS AND FLOWERING PLANTS, 2d ed.—R. J. Pool—*McGraw*.  
 FUNDAMENTALS OF PLANT SCIENCE—Sister M. E. O'Hanlon—*Crofts*.  
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 ILLUSTRATED FLORA OF THE PACIFIC STATES, Vol. II—LeRoy Abrams—*Stanford*, \$7.50.  
 INDEX LONDINENSIS TO ILLUSTRATIONS OF FLOWERING PLANTS, FERNS AND FERN ALLIES—W. C. Worsdell—*Oxford U.*, 2 vols., \$65\*.  
 INTRODUCTION TO THE STUDY OF ALGAE—V. J. Chapman—*Cambridge (Macmillan)*, \$4\*.  
 A MANUAL OF THE HIGHER PLANTS OF OREGON—Morton E. Peck—*Binfords & Mort*, \$5.  
 OUTLINE OF GENERAL BOTANY—H. J. Fuller — *Barnes & Noble*, 75c.  
 PLANT ECOLOGY, 3d ed.—W. B. McDougall—*Lea & F.*, \$3.  
 PLANT WORLD—H. J. Fuller—*Holt*, \$3.25\*.  
 PLANTS AND MAN—C. J. Hylander and O. B. Stanley—*Blakiston*, \$3.  
 STANDARDIZED PLANT NAMES — Amer. Joint Comm. on Horticultural Nomenclature, comp. — *Macmillan*, \$7\*; pre-publication (May), \$6\*.  
 STUDIES OF AMERICAN SPERMATOPHYTES, I—C. L. Lundell—*U. Mich.*  
 STUDIES OF NORTH AMERICAN AGARICS, I—Alexander H. Smith—*U. Mich.*, 50c.  
 STUDIES OF THE VEGETATION OF MISSOURI, II — Julian A. Steyermark—*Julian A. Steyermark*, \$1.25.

### Chemistry

- ACTIVITY NOTEBOOK IN CHEMISTRY AND PHYSICS FOR CONSUMERS—S. R. Wilson—*Holt*, 72c.  
 ADVANCES IN ENZYMOLOGY, Vol. I—F. F. Nord and C. H. Werkman, ed.—*Interscience*, \$5.50\*.  
 ALUMINUM CHLORIDE—C. A. Thomas—*Reinhold*.  
 ANALYTICAL CHEMISTRY OF INDUSTRIAL POISONS, HAZARDS AND SOLVENTS—M. Jacobs—*Interscience*, \$6\*.  
 ANALYTICAL PROCESSES: A PHYSICO-CHEMICAL INTERPRETATION, 2d ed.—T. B. Smith—*Longmans*, \$5\*.  
 ANODIC OXIDATION OF ALUMINUM AND ITS ALLOYS—A. Jenny, tr. by W. Lewis—*Chem. Pub.*, \$6.50.  
 CHEMICAL ACTION OF ULTRA-VIOLET RAYS, rev. ed.—Carleton Ellis and others—*Reinhold*, \$12.  
 CHEMICAL ANALYSIS OF ALUMINUM, 2d ed.—Aluminum Company of America—*Aluminum Research Laboratories*, 50c.  
 CHEMICAL ARITHMETIC, 2d ed. — Arenson — *Wiley*.  
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NUMERICAL AND CONSTITUTIONAL EXERCISES IN ORGANIC CHEMISTRY—J. L. B. Smith and M. Rindl—*Chem. Pub.*, \$3.

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ORGANIC CHEMISTRY—F. E. Ray—*Lippincott*, \$4.

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AMERICAN PLANNING AND CIVIC ANNUAL— Harlean James, ed.—*Amer. Planning and Civic Assoc.*, \$3.

ARSENAL OF DEMOCRACY, How Industry Builds Our Defense — Burham Finney — *Whittlesey House*, \$2.50.

COLOR AND HUMAN NATURE: Negro Personality Development in a Northern City—W. L. Warner, B. H. Junker and Walter Adams—*Amer. Youth Comm.*, \$2.25.

COLOR CLASS AND PERSONALITY, SUMMARIZING THE NEGRO YOUTH SURVEY — R. S. Sutherland—*Amer. Youth Comm.*

THE CREATION AND DEVELOPMENT OF AN INSURANCE LIBRARY, 2d and rev. ed.—D. N. Handy—*Special Libraries Assn.*, 44 p., \$1.

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EUROPE'S TRADE—League of Nations—*Columbia*, \$2.

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HOW TO MAKE YOUR BUDGET BALANCE, rev. ed.—E. C. Harwood and Helen Fowle—*Amer. Inst. for Econ. Res.*, \$1.

HOW YOU CAN GET A BETTER JOB—W. K. Lasher and E. A. Richards—*Amer. Tech. Soc.*, \$1.50.

LABOR AND NATIONAL DEFENSE — Lloyd G. Reynolds and The Labor Committee—*Twentieth Century Fund*, \$1.

LIFE INSURANCE FROM THE BUYER'S POINT OF VIEW, 1941 ed.—Bion H. Francis—*Amer. Inst. for Econ. Res.*, \$1.

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• "I will never get over the Haitians' insistence on calling bananas 'figs'! After heated debate extending over some months, I finally lost my temper and took the trouble to order a case of figs from overseas just to show them. When I did so, and invited the assembled company—which included some educated Jamaicans,

# HORS SAY:

I might add—to sample them, they took one look and two sniffs and said, 'Ah! *Ce sont des fraises!*' (strawberries) I lost years at that moment."—Ivan T. Sanderson in *LIVING TREASURE (Viking)*.

*Science News Letter, April 19, 1941*

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• "With her (Africa), the basic structure is the race, a broader, simpler, and more fundamental unit than the complex division embodied in the nation. Changes in national sovereignty may leave her completely unmoved . . . but interfere with the solidarity of races, and you attempt a feat like that of standing the egg on its small end: it quickly upsets; and its oscillations and gyrations give evidence of the drastic and unnatural experiment that has been attempted."—Richard Upjohn Light in *FOCUS ON AFRICA (American Geographical Society)*.

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## ANTHROPOLOGY

# Skeletons of Indian Dwarf Couple Described at Meeting

## Abnormality Is of Type Fairly Common Among All Races, But Only One Other Indian Dwarf Skeleton Is Known

**S**KELETONS of a pair of dwarfs, the rarest abnormality known among prehistoric American Indians, were described before the American Association of Physical Anthropologists, meeting in Chicago, by Dr. Charles E. Snow of the Alabama Museum—W.P.A. Archaeological Laboratory, Birmingham, Ala. Only one other Indian dwarf skeleton, a specimen from Florida now in the National Museum in Washington, D. C., is known to science.

The two skeletons were found buried

a few feet deep in Mound State Monument, Moundville, Ala., and were measured as they lay. The man's skeleton indicated a height during life of between 4 feet 4 inches and 4 feet 6 inches. The woman apparently had measured approximately 4 feet 1 inch. The skull of the male was in fairly good condition, but the woman's skull was so badly crushed that restoration was impossible.

The two dwarfs were of a type fairly common among all races, with normal sized bodies but abnormally short legs and arms and often enlarged heads, technically termed chondrodystrophic dwarfs, Dr. Snow stated. A serious upset of the internal glands that control growth is considered possibly responsible for this kind of dwarfism.

The skull of the little Indian man is very large, and is shaped much as are the skulls of the same type of dwarf among white people, with prominent, bulging forehead and a concave, "nubbin-nosed" face. Arm and leg bones are short and massive, with rugged, highly developed areas for the attachment of muscles.

Both Indian dwarfs appear to have had their own share of physical ailments, for many of the teeth of the man's jaws show cavities and there are evidences of abscesses. There are also evidences of possible arthritis on the joints on the spinal columns of both dwarfs.

No evidence of the dwarfs' lot in life was found with their skeletons. Both were buried faces downward, with legs and arms partly drawn up. There were no funeral gifts accompanying them.

*Science News Letter, April 19, 1941*



**RARE DWARF INDIAN**

*Skeleton of one of the two dwarf Indians found at Moundville, Ala., as prepared and photographed by Dr. Charles E. Snow of the Alabama Museum of Natural History—WPA Archaeological Laboratory, Birmingham, Ala. Note extreme shortness of arm and leg bones: the larger black-and-white marks on the measure alongside the right leg mark a height of eight inches to the knee.*

### From Page 249

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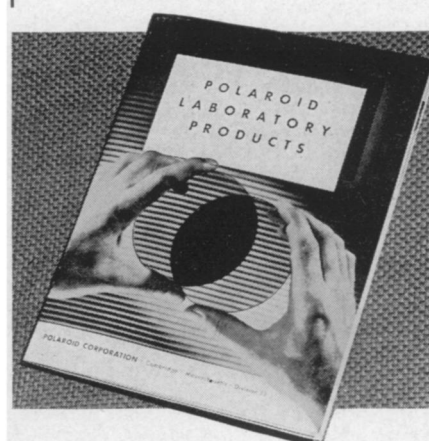


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