

15¢

\$5.50 A YEAR

October 9, 1965

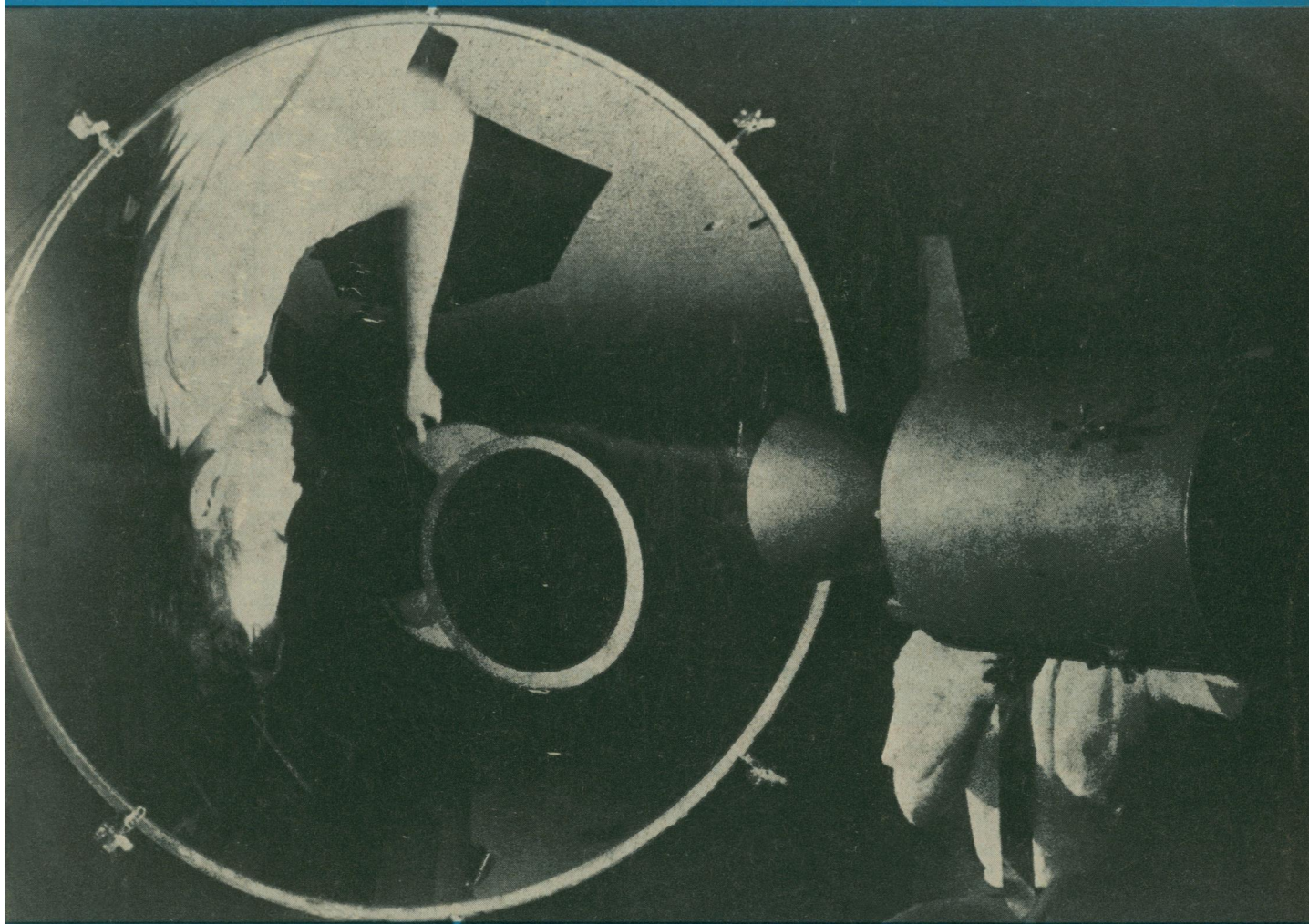
VOL. 88, NO. 15

PAGES 225-240

# SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Midwest Research Institute

**Shadows of Apollo**  
See Page 228

A SCIENCE SERVICE PUBLICATION



**1067. PRINCIPLES OF MECHANICS SIMPLY EXPLAINED.** Morton Mott-Smith. Highly readable introduction to theories and discoveries of classical physics: density, gravity, mass, kinetic & potential energy, Galileo, Newton, etc. 45 illustrations. 185pp. Paperbd. \$1.00

**978. HEAT AND ITS WORKINGS.** Morton Mott-Smith. One of best elementary introductions, fine preparation for more advanced books, courses. 50 illustrations. 175pp. Paperbd. \$1.00

**542. SOAP BUBBLES, THEIR COLOURS AND THE FORCES WHICH MOULD THEM.** C. Boys. Only complete edition. Describes dozens of lucid experiments, full implications soap bubbles offer for study of many physical phenomena. 1 color plate. 83 illus. 202pp. Paperbd. 95¢

**418. SPINNING TOPS AND GYROSCOPIC MOTION.** John Perry. Famous Christmas lectures at Royal Institute; delightful coverage of rotation, including precession. 62 illus. 128pp. Paperbd. \$1.00

**121. PROBABILITIES AND LIFE.** Emile Borel. Fine nontechnical survey of the results of probability in daily situations: accidents, gambling, weather, etc. 3 appendices somewhat more technical for readers with more background. 96pp. Paperbd. \$1.00

**197. LOUIS PASTEUR.** S. J. Holmes. Much the best short account of life and works; "Unique value for general reader." N.Y. Times. 17 illus. 159pp. Paperbd. \$1.00

**199. PIERRE CURIE.** Marie Curie. Nobel Laureate covers the inspirational life and work of her husband; also her own autobiography. 8 illus. 128pp. Paperbd. \$1.00

**308. EXPERIMENT AND THEORY IN PHYSICS.** Max Born. Nobel Laureate covers synthetic vs. analytical approaches in the work of Einstein, Bohr, Heisenberg, Planck, etc. 44pp. Paperbd. 75¢

**1008. SPACE AND TIME IN CONTEMPORARY PHYSICS.** Moritz Schlick. Leader of Vienna School of logical positivists explains relativity and gravitation on elementary level. 101pp. Paperbd. \$1.00

**130. THE CONTINUUM AND OTHER TYPES OF SERIAL ORDER.** E. V. Huntington. Well-known systematic introduction to modern theory; ordered classes, transfinite numbers, discrete and dense series, etc. 90pp. Paperbd. \$1.00

**1010. ESSAYS ON THE THEORY OF NUMBERS.** Richard Dedekind. One of the greatest modern mathematicians; continuity and irrational numbers, nature and meaning of numbers. 122pp. Paperbd. \$1.00

**988. CONTEMPORARY GEOMETRY.** Andre Delaunay. Recent developments clearly presented: groups, abstract geometry, vectors, metric spaces, etc. For advanced undergraduates. 118 pp. Paperbd. \$1.00

**747. ELEMENTARY CONCEPTS OF TOPOLOGY.** P. Alexandroff. Unusually useful intuitive approach, easily followed. Ranges from elementary concepts to Betti groups. 25 illus. 73pp. Paperbd. \$1.00

**310. INTRODUCTORY NON-EUCLIDEAN GEOMETRY.** H. P. Manning. Simple, direct account of hyperbolic geometry, elliptic, analytical. Only elementary calculus needed. 94 illus. 103pp. Paperbd. \$1.00

**111. MATHEMATICAL TABLES AND FORMULAS.** R. C. Churchill, E. R. Smith. Unbelievable bargain! All tables needed through college algebra and trig, some calculus. 275pp. Paperbd. \$1.00

**941. ART AND GEOMETRY.** William M. Ivins, Jr. Controversial, stimulating attack on ancient Greeks and reevaluation of science, art, etc. 123pp. Paperbd. \$1.00

**987. MODERN THEORY OF MOLECULAR STRUCTURE.** B. Pullman. Atomic and molecular theory: wave function, electronic structure, non-conjugated, conjugated polyatomic molecules, complexes, etc. Little math, only elementary chemistry needed. 95pp. Paperbd. \$1.00

**998. CATALYSIS & CATALYSTS.** M. Prettre. Fine summary of modern concepts, methods, results, practical applications. Most useful for reader with elementary chemistry. 95pp. Paperbd. \$1.00

**62. HOW TO USE A SLIDE RULE.** A. A. Merrill. Multiplication, division explained step-by-step, with model clarity; designed for beginner or user who is having trouble. 10 illus. 78 problems, answers. 62pp. 9 1/2 x 6 1/2. Paperbd. 60¢

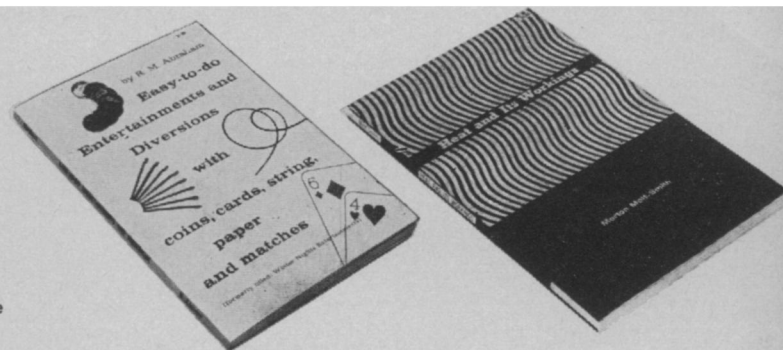
**295. HOW TO CALCULATE QUICKLY.** Henry Stoker. Tried and true method for increasing "number sense." full course teaching new methods. Not a collection of tricks. 256pp. Paperbd. \$1.00

**1099. THE FRIENDLY STARS.** Martha Evans Martin. The best introduction to naked-eye observation; a new edition (revised thoroughly by Prof. Menzel of Harvard) of a classic that has taught hundreds of thousands where to look, how to find stars, etc. All new charts. xii + 147pp. Paperbd. \$1.00

**1364. FUN WITH FIGURES.** J. A. H. Hunter. 150 ingenious mathematical puzzles presented in very amusing, very entertaining manner. Excellent for awakening interest in math; also lots of fun. Answers xii + 109pp. Paperbd. \$1.00

# IMAGINE BUYING BOOKS LIKE THESE FOR \$1.00!

It's almost unbelievable in these days of high book prices, but here are more than 50 books for \$1 or less! "Real books," too; good paper, sewn-bound—books that will last!



**1231 TOPSYS & TURVYS.** Peter Newell. Remarkably ingenious humorous pictures that can be turned upside down for new effects! Rave review in N.Y. Times. 12 plates in color; total of 74. 76pp. 9 x 6. Paperbd. \$1.00

**1127. DIVERSIONS AND PASTIMES WITH COINS, CARDS, STRING, PAPER & MATCHES.** R. M. Abraham. Amuse yourself or children. Hours with unusual effects, make useful little trinkets, etc. 128pp. Paperbd. \$1.00

**161. FAMOUS BRIDGES OF THE WORLD.** David Steinman. One of greatest bridge builders tells history, construction principles of famous bridges. 48 illus. 99pp. 6 1/2 x 9 1/4. Paperbd. \$1.00

**1139. INTRODUCTION TO BIRD LIFE FOR BIRD WATCHERS.** Aretas Saunders. Much basic information about 160 different birds; wonderful for summer camp, hikes, etc. 22 illus. 256pp. Paperbd. \$1.00

**920. HOW NOT TO PLAY CHESS.** E. Znosko-Borovsky. How to avoid basic errors. 119pp. Paperbd. \$1.00

**748. HOW TO SOLVE CHESS PROBLEMS.** K. S. Howard. 112 problems selected from world's best; solutions. 178pp. Paperbd. \$1.00

**1210. INTRODUCTION TO CHESS MOVES AND TACTICS: SIMPLY EXPLAINED.** Leonard Barden. Perhaps the best modern introduction to middle-level coverage. We recommend it. 102pp. Paperbd. \$1.00

**367. 101 PUZZLES IN THOUGHT AND LOGIC.** C. R. Wylie, Jr. Entirely new problems, ranging from relatively simple to brain teasers. 128pp. Paperbd. \$1.00

**731. MAZES AND LABYRINTHS.** W. Shepherd. Is there anyone who is not fascinated by maze problems? 50 very unusual amusements, puzzles based on the maze principle. 84 illus. 137 pp. Paperbd. \$1.00

**498. MATHEMATICAL PUZZLES OF SAM LOYD.** edited by Martin Gardner. The great American puzzle-deviser represented by 117 ingenious, quirky, imaginative puzzles. 120 illus. 187pp. Paperbd. \$1.00

**91. MY BEST PUZZLES IN MATHEMATICS.** H. Phillips. 100 of "Caliban's" best; excellent modern puzzles. 117pp. Paperbd. \$1.00

**119. MY BEST PUZZLES IN LOGIC & REASONING.** H. Phillips. No special knowledge, no heavy math, only ability to think clearly and rigorously are tested here. 100 puzzles. 117pp. Paperbd. \$1.00

**335. MATHEMATICS, MAGIC & MYSTERY.** Martin Gardner. Puzzle editor for Scientific American explains mathematical principles behind card tricks, dice, coins, geometrical vanishing, dissecting tricks. You can do these tricks yourself. 186pp. Paperbd. \$1.00

**1059. 1800 RIDDLES, ENIGMAS AND CONUNDRUMS.** D. A. Hindman. A really remarkable collection of witty, imaginative, corny, laugh-provoking riddles; guaranteed to please almost anyone. 157pp. Paperbd. \$1.00

**921. EASY-TO-DO ENTERTAINMENTS & DIVERSIONS WITH CARDS, STRING, COINS, PAPER & MATCHES.** R. Abraham. Over 500 entertaining games, tricks, puzzles based on household objects. Pleases both adults and children. 329 illus. 191pp. Paperbd. \$1.00

**713. PAPER FOLDING FOR BEGINNERS.** W. D. Murray, F. J. Rigney. One of the most popular books we have ever published; extremely lucid instructions for 43 useful, decorative, or instructive artifacts. Profusely illustrated. 95pp. Paperbd. \$1.00

**1. FLATLAND. A ROMANCE OF MANY DIMENSIONS.** E. A. Abbott. A sturdy classic of science-fiction, life in 2-dimensions; also useful easily-digested introduction to hyperspace, etc. 16 illus. 128pp. Paperbd. \$1.00

**767. GHOST AND HORROR STORIES OF AMBROSE BIERCE.** ed. by E. F. Bleiler. Full collection of 24 eerie tales, including both well-known classics and unfamiliar ones. 221pp. Paperbd. \$1.00

**628. MR. DOOLEY ON IVRYTHING AND IVRYBODY.** ed. by R. Hutchinson. Fine selection of Mr. Dooley's sagely ridiculous humor. 256pp. Paperbd. \$1.00

**423. JOE MILLER'S JESTS, OR THE WIT'S VADE-MECUM.** The original 18th century collection; keen, pungent, sometimes a little bawdy, but always amusing. 91pp. Paperbd. \$1.00

**930. RUTHLESS RHYMES FOR HEARTLESS HOMES. MORE RUTHLESS RHYMES FOR HEARTLESS HOMES.** Harry Graham. All those tongue-in-cheek horror-humor poems about Little Willy, etc. Many illus. 76pp. Paperbd. 75¢

**378. THROUGH THE ALIMENTARY CANAL WITH GUN AND CAMERA.** George S. Chappell. Most amusing imaginary voyage down through the nerve forests, battling amoebas, etc. Preface by Benchley. 18 illus. by Soglow. 122pp. Paperbd. \$1.00

**1014. THE GARDENER'S YEAR.** Karel Capek. Perhaps the best book of garden humor ever written. by famous Czech author. 116pp. Paperbd. \$1.00

**902. WIT AND HUMOR OF OSCAR WILDE.** Over 1000 remarkable epigrams, cutting remarks, wit-plays of Ireland's greatest humorist. 260pp. Paperbd. \$1.00

**749. THE BAD CHILD'S BOOK OF BEASTS, MORE BEASTS FOR WORSE CHILDREN, A MORAL ALPHABET.** Hilaire Belloc. Hard to believe at this price but this contains all three books, complete, of first-rate nonsense humor. Illustrated by B. Blackwood. 157pp. Paperbd. \$1.00

**487. THE DEVIL'S DICTIONARY.** Ambrose Bierce. America's best sardonic humorist demolishes pomposities, stupidities in "America's most gorgeous witticisms." (H. L. Mencken). 144pp. Paperbd. \$1.00

**167. THE COMPLETE NONSENSE OF EDWARD LEAR.** All Lear's famous nonsense songs, nonsense alphabets, verse, illustrations. A real bargain. 546 illus. by Lear. 320pp. Paperbd. \$1.00

**523. HOW TO TELL THE BIRDS FROM THE FLOWERS.** R. W. Wood. How to tell carrot from parrot, grape from ape, etc. Wonderful drawings, clever verse. 106 illus. 60pp. Paperbd. 75¢

**1024. PHONETICS.** Berth Malmberg. Thorough but easily followed introduction to phonetics, phonemics, historical phonetics, machine analysis, etc. 63 illustrations. 127pp. Paperbd. \$1.00

**419. ESSENTIAL FRENCH GRAMMAR.** S. Resnick. All grammar really needed for most purposes; many short cuts, easy ways. Verbal explanation used rather than rote memory. Excellent introduction, good book for self-study, fine review. For adult with limited time. Cognate list of 56 pages. 159pp. Paperbd. \$1.00

**780. ESSENTIAL SPANISH GRAMMAR.** S. Resnick. Like French, above; cognate list of 50 pp. 128pp. Paperbd. \$1.00

**422. ESSENTIAL GERMAN GRAMMAR.** Guy Stern, E. Bleiler. Same principle as French, Spanish; easy techniques for endings, verb forms, word order, etc. 128pp. Paperbd. \$1.00

**779. ESSENTIAL ITALIAN GRAMMAR.** Olga Ragusa. As other volumes. 111pp. Paperbd. \$1.00

**1027. ESSENTIAL JAPANESE GRAMMAR.** E. Bleiler. Explains thought-processes involved very clearly, like other volumes in series. 156pp. 4 1/2 x 6 1/2. Paperbd. 75¢

**326. SAILING ALONE AROUND THE WORLD.** Joshua Slocum. Great classic of sea adventure: "A nautical equivalent of Thoreau." Van Wyck Brooks. 67 illus. 308pp. Paperbd. \$1.00

**260. MONEY CONVERTER & TIPPING GUIDE FOR EUROPEAN TRAVEL.** Charles Vomacka. Currency conversion tables, tipping information for every European country plus Israel, Egypt, Turkey. Not a gimmick or toy. Also many useful travel tables. A bon voyage present that will be appreciated. Up-to-date. 128pp. Pocket-sized. 3 1/2 x 5 1/2. Paperbd. 75¢

All books standard 5 1/2 x 8 unless otherwise indicated.

Dept. 523, Dover Publications, Inc., 180 Varick St., New York, N. Y. 10014. Please send me the following books in the quantities indicated.	
I am enclosing \$..... in full payment. Payment in full must accompany all orders except from libraries or public institutions, who may be billed. Please add 10¢ per book for postage and shipping charges on orders less than \$5.00.	
Please print	
Name .....	.....
Address .....	.....
City .....	State .....
GUARANTEE: All Dover books guaranteed; returnable within 10 days for full refund.	