

# science news

October 25, 1969 25c  
vol. 96, no. 17, pp. 365-388

## biological effects of microwaves

Refining nuclear physics

The stars in November

Letter from Frankfurt  
non-proliferation treaty

Simple experiments, games teach children science.

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# HUMAN ANATOMY FOR CHILDREN

Ilse Goldsmith

Can you feel the windpipe's rings in your throat? Do you know why it is constructed that way? Are all your joints formed in the same way? Can you twist your knee in as many directions as your arm? Do you know what happens when you blink your eyes? How much does your liver weigh? your brain?

Discussing questions like these, this book takes your children on a learning adventure, showing how the important organs and systems of the human body are made and how they work. Not superficial or condescending, it keeps children's interest by encouraging them to play an active part; to look at their own legs and arms, joints, eyes and ears, eating habits, etc. Children are invited to note the pattern in the way hair grows by studying their own arm through a magnifying glass; to listen to the heart beat through a homemade stethoscope; to test their depth perception and binocular vision; to find the different taste areas on the tongue. With these simple experiments and by relating the material to such obvious, intriguing phenomena as coughing, dental cavities, blushing, broken bones, baldness, and so forth, the text makes a fascinating presentation of the eye and simple phenomena of vision, the ear and the nature of sound, the nose and tongue, the skeleton and muscle system, types of joints, the teeth, the digestive system, the heart and circulatory system, white and red blood cells, the brain and spinal cord, the gland system, male and female reproductive organs, phenomena of puberty, and reproduction. Illustrated with 100 drawings by William Krause. 93 pp. 6¼ x 9¼. 22355-8 Paperbd. \$1.25

## Other Dover "Science for Children" books:

**SCIENCE EXPERIMENTS AND AMUSEMENTS FOR CHILDREN, Charles Vivian.** Young children have fun while learning fundamentals of physics, chemistry, mechanics, air pressure, heat conduction, the nature of sound, etc. They construct a periscope, compass, walky-talky, pinhole camera, 3-D viewer, etc. Only simple household articles needed; adult supervision optional. 102 photos of experiments in progress. 96 pp. 6¼ x 9¼. 21856-2 Paperbd. \$1.25

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## New books in all fields . . .

**FOLK TALES FROM RUSSIAN LANDS, Irina Zheleznova.** Baba-Yaga's hut on chicken legs, magic violins, the story of "Anait" from Armenia, slyly humorous tales like "Pokati-Goroshkek" from the Ukraine, the Chukchi tale "The Girl and the Moon Man"—the best stories from Russia's many peoples. Formerly "A Mountain of Gems." 37 ills. 333 pp. 5¼ x 8½. 22267-5 Paperbd. \$2.00

**THE ARCHITECTURE OF COUNTRY HOUSES, A. J. Downing.** Inestimably influential style book served as guide and model for tens, perhaps hundreds of thousands of homes throughout Eastern U.S. Essential sourcebook for Hudson River Gothic style; important document in development of the modern house. 321 figures. Introduction by J. Stewart Johnson, Pres., Victorian Soc. in America. xxvi + 486 pp. 5¼ x 8½. 22003-6 Paperbd. \$3.50

**A GARDEN OF HERBS, Eleanor S. Rohde.** Genial compilation of the inexhaustible uses of herbs: recipes (chervil broth, pickled cowslips, marigold pudding, Sauce Eglantine, tarragon vinegar); dozens of teas and wines; how to make pomanders, perfumes, ointments; plus the lore, legend and medicinal virtues traditionally associated with common and uncommon herbs. 10 ills. xxiii + 300 pp. 5¼ x 8½. 22308-6 Paperbd. \$2.50

**HAWKS, OWLS AND WILDLIFE, John J. Craighead and Frank C. Craighead.** The most intensive study of predatory birds ever published; important data on these birds' role in maintaining a stable small-rodent population; hunting territories, behavior; diet and food intake, etc. 116 ills., maps, etc. xix + 443 pp. 5¼ x 8½. 22123-7 Paperbd. \$3.75

**THE DISPARATES, Francisco Goya.** The 22 prints of this final cycle, plus other works associated with it including a drawing published for the first time. Goya's imagination traverses an unexplored country, strikingly powerful, enigmatic nightmare visions of his old age. Total of 26 plates, reproduced facsimile size. Introduction by Philip Hofer. v + 55 pp. 11 x 13¼. 22319-1 Paperbd. \$2.75

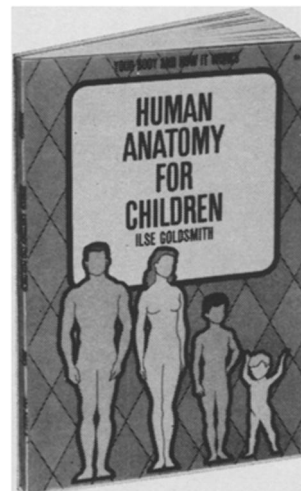
**BILLY WHISKERS: THE AUTOBIOGRAPHY OF A GOAT, Frances T. Montgomery.** The best of a popular series about the adventures of a rambunctious goat. Still a favorite with kids who are just beginning to read. One recent 10 year old was heard to exclaim, "Best book I ever read!" 24 ills., some in color. 159 pp. 5¼ x 8½. 22345-0 Paperbd. \$2.00

**BEER MAKING FOR ALL, James MacGregor.** For a few pennies a pint, you can make beers equal and even superior to commercial beers, drinkable in as little as two weeks. The author promises that, using his methods, all the beer you produce will be good. Make five strengths of ale, four of beer, and three stouts. 126 pp. 7¼ x 5. 22328-0 Clothbd. \$3.00

**THE EXACT SCIENCES IN ANTIQUITY, O. Neugebauer.** Often surprising revelation of, chiefly, the mathematics and astronomy of pre-Hellenistic civilizations: number systems of ancient Near East, Babylonian tables for numerical computation, Pythagorean numbers, Egyptian astronomy based on a competent mathematical apparatus as well as observation. By a scholar who combines abilities of a mathematician with those of a paleolinguist. 66 ills. xvi + 240 pp. 5¼ x 8½. 22332-2 Paperbd. \$2.50

**MONTGOMERY WARD & CO., SPRING AND SUMMER CATALOGUE 1895.** Could any history book, no matter how accurate and perceptive, capture this colorful era as vividly as this great mail order catalogue? Just looking at the 11,414 pictures tells you what people wore, what children played with, what implements were used in kitchen, shop and stable. The prices! A typewriter for 80c, a Stradivarius-model violin, \$6.50. Introduction by Boris Emmet. xiii + 625 pp. 8½ x 11¼. 22377-9 Paperbd. \$6.95

**AMERICAN FOOD AND GAME FISHES, David S. Jordan and Barton W. Evermann.** An identification guide and introduction to fish on a semi-popular level, so packed full of information and covering the area virtually exhaustively—describing over 1000 species of N. American fresh and salt water fish (every species of either food or



**PHYSICS EXPERIMENTS FOR CHILDREN, Muriel Mandell.** Simple means demonstrate air has weight, specific gravity, heat conduction. Thread-spool pulleys . . . bottle-cap gears . . . a stethoscope . . . a sound amplifier—in all over 103 things to do. Formerly "Science for Children." Over 100 illustrations. 96 pp. 6¼ x 9¼. 22033-8 Paperbd. \$1.25

**CHEMISTRY EXPERIMENTS FOR CHILDREN, V. L. Mullin.** Measure the amount of oxygen in air, make a fire extinguisher, illustrate osmosis, create light-sensitive paper and make lensless photos, bend glass. Formerly "Chemistry for Children." Over 100 illustrations. 96 pp. 6¼ x 9¼. 22031-1 Paperbd. \$1.25

**ELECTRICITY EXPERIMENT FOR CHILDREN, Gabriel Reuben.** Explains transistors, resistors, capacitors, radio waves. Instructions for making lead storage cells, a rheostat out of a pencil, turning an iron bolt into a magnet, demonstrating parallel and series wiring. Formerly "Electronics for Children." Over 100 illustrations. 88 pp. 6¼ x 9¼. 22030-3 Paperbd. \$1.25

**BIOLOGY EXPERIMENTS FOR CHILDREN, Ethel Hanauer.** Learn microscope technique: examine a hair, fish scales, protozoa, bread molds. Isolate chlorophyll, test for starch, grow carnivorous plants, make a terrarium. (Unlike the other books in this series, which require little or no equipment or expensive materials, Biology Experiments requires the use of a microscope for approximately half the experiments). Formerly "Biology for Children." Over 100 illustrations. 96 pp. 6¼ x 9¼. 22032-X Paperbd. \$1.25

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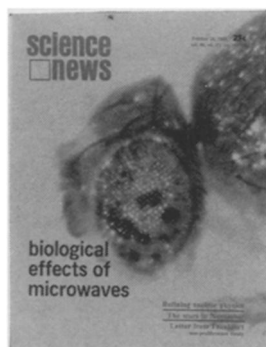
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Scientists know that high-power microwaves can produce harmful effects on tissue. They are not so sure about those below 10 milliwatts per square centimeter. The dark spots in the eye of the fruit fly *Drosophila melanogaster* are mutations attributed to the effects of extremely low-power radio frequencies. p. 382 (Photo: New England Institute)

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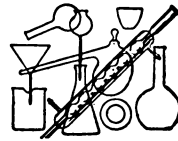
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