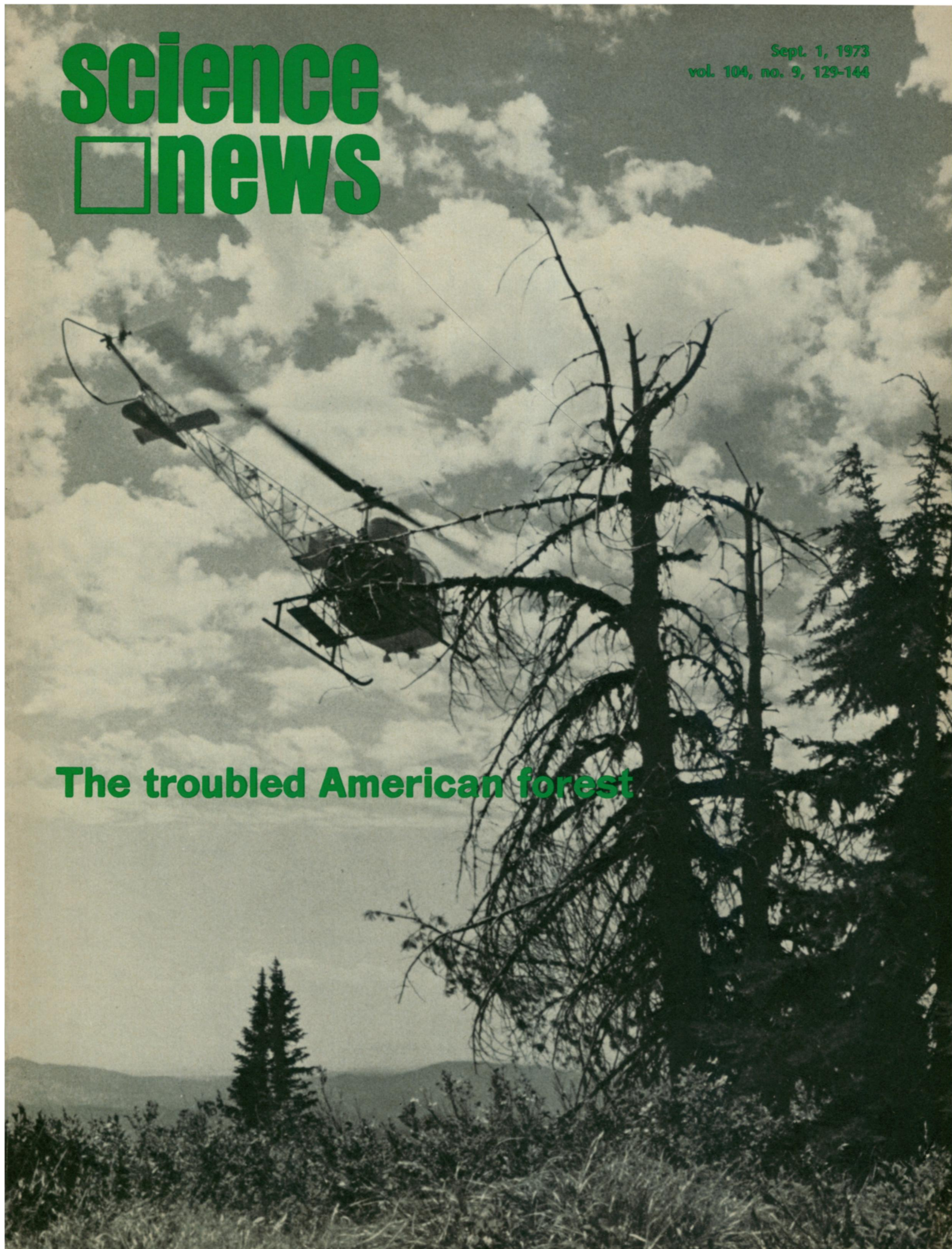


# science □ news

Sept. 1, 1973  
vol. 104, no. 9, 129-144

## The troubled American forest





# Check to see if the books you've been meaning to read are on this list below. Chances are they are—so join The Library of Science today.

**75730. SCIENCE AND SOCIETY IN THE 16TH AND 17TH CENTURIES.** Alan G. R. Smith. A lucid and succinct account of the scientific advances of the sixteenth and seventeenth centuries. **\$8.95**

**63131. MOLECULES AND LIFE.** Joseph S. Fruton. The interplay of chemical and biological ideas is presented with full documentation for the period from about 1800 to 1950. Counts as 2 of your 3 books. **\$19.95**

**55561. THE INSECT SOCIETIES.** Edward O. Wilson. Authoritative account of the most significant facts and theories about insect societies. Counts as 2 of your 3 books. **\$20.00**

**61360. MATHEMATICAL STATISTICS WITH APPLICATIONS.** William Mendenhall and Richard Scheatter. Covers statistical theory, hypothesis testing, linear models, and much, much more. **\$12.95**



**36760. BORANES IN ORGANIC CHEMISTRY.** Herbert C. Brown. Counts as 2 of your 3 books. **\$24.50**

**50291. A GOD WITHIN.** René Dubos. For scientists, particularly for ecologists and environmentalists, it creates a new, scientific theology of the earth which man must have if he is to survive. **\$8.95**

**43210. EARTH MEDICINE — EARTH FOODS.** Michael Weiner. An exciting rediscovery of the plant remedies, drugs, and natural foods of the North American Indians. **\$8.95**

**86841. WHAT YOU NEED TO KNOW ABOUT FOOD AND COOKING FOR HEALTH.** Lawrence E. Lamb, M.D. An eminent cardiologist and author of *Your Heart and How to Live with It* offers a new and scientific approach to nutrition and how it can improve health through diet. **\$10.00**

**45471. ENVIRONMENTAL GEOSCIENCE.** Arthur N. Strahler and Alan H. Strahler. Masterful exploration of the physical and biological processes involved in interactions between Man and the environment of energy and matter which surrounds him. **\$12.95**

**84451. TOWARD A GENERAL SCIENCE OF VIABLE SYSTEMS.** Arthur S. Iberall. Introduces a science that attempts to unify our understanding of all autonomous systems—natural, organic or man-made—proposing a continuum ranging from nuclear particles at one end of the scale to the cosmos at the other. **\$14.50**

## INTRODUCTORY OFFER:

### Choose any 3 books—for only \$3.95

(values as high as \$48.95)

with membership in

## The Library of Science

(You simply join now and agree to take 3 more books—at handsome discount—over the next 12 months.)

**63810. NATURAL HISTORY OF INFECTIOUS DISEASES.** Fourth Edition. Sir Macfarlane Burnet and David O. White. Summarizes the scope of our knowledge of the diseases that afflict mankind. **\$14.50**

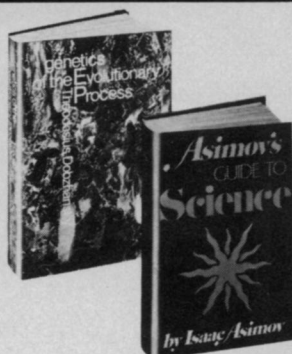
**84130. THERMAL PHYSICS.** Charles Kittel. A revolutionary treatment of an all-important field by the author of the acclaimed *Introduction to Solid State Physics*. **\$12.95**

**34630. ASIMOV'S GUIDE TO SCIENCE.** Isaac Asimov. The incomparable Isaac Asimov has done it again with this encyclopedic work of 945 pages that is meant to be read and enjoyed. **\$15.00**

**62801. MODERN COSMOLOGY.** D. W. Sciama. "From the standpoint of readability, orderliness, continuity, and its ability to hold one's attention, the book is three standard deviations above the mean." —*Physics Today* **\$9.95**

**42070. THE DEVELOPMENT OF MODERN CHEMISTRY.** Aaron J. Ihde. An 850-page history of chemistry filling the niche between short, popularized works and exhaustive, pedantic treatment. "Scholarly and well written." —*Scientific American* **\$14.95**

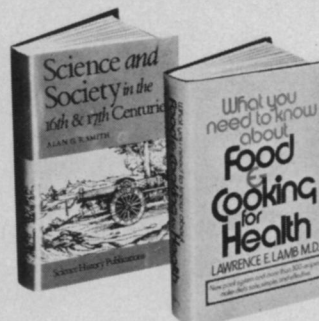
**50110. GENETICS OF THE EVOLUTIONARY PROCESS.** Theodosius Dobzhansky. This is the definitive work on the modern synthetic theory of evolution by the world's foremost geneticist. **\$12.50**



**50281. GIANT REPTILES.** Sherman A. Minton, Jr., and Madge Ruthertford Minton. A storehouse of information of the giant reptiles of the world. Illustrated. **\$9.95**

**70240. PRE-COLUMBIAN CITIES.** Jorge E. Hardoy. A remarkable study of the prehistoric civilizations of the Western hemisphere. Implications for the contemporary urban crisis in America. Counts as 2 of your 3 books. **\$19.95**

**84760. TRIAL BY FURY: The Polio Vaccine Controversy.** Aaron E. Kline. Thoroughly readable record of one of modern science's major triumphs: the vaccine that successfully immunizes children and young adults against poliomyelitis. **\$6.95**

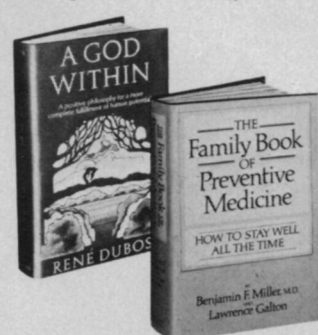


(retail prices shown)

**48210. THE FAMILY BOOK OF PREVENTIVE MEDICINE.** Dr. Benjamin Miller and Lawrence Galton. Scenarios of more than 60 diseases. **\$12.95**

**53400. HISTORY OF ROCKETRY AND SPACE TRAVEL: Revised Edition.** Wernher von Braun and Frederick I. Ordway III. A remarkable travel through time, from medieval rockets to the Apollo moon-walk. **\$17.50**

**36280. A BIOGRAPHICAL DICTIONARY OF SCIENTISTS.** Edited by Trevor I. Williams. Over 1000 biographies of scientists in every field, from agriculture to zoology. **\$9.95**



**HOW THE CLUB OPERATES.** • The Book Club News, describing the coming Main Selection and Alternate Selections, will be sent to you 15 times a year at three to four week intervals. • If you wish to purchase the Main Selection, do nothing and it will be shipped to you automatically. • If you prefer one of the Alternates, or no book at all, simply indicate your decision on the reply form always enclosed with the News and mail it so we receive it by the date specified. • The News is mailed in time to allow you at least 10 days to decide if you want the coming Main Selection. If, because of late mail delivery of the News, you should ever receive a Main Selection without having had the 10-day consideration period, that Selection may be returned at Club expense. • After completing your trial membership, you will be entitled to take advantage of our fabulous bonus plan which offers savings up to 70% and more. • (Offer good in Continental United States and Canada only. Prices are slightly higher in Canada.)

The Library of Science, Riverside, New Jersey 08075

2-47Y

Please accept my application for membership and send me the three volumes indicated billing me only \$3.95 for all three. I agree to purchase at least three additional Selections or Alternates during the first year I am a member, at special members' prices. Savings range up to 30% and occasionally even more. My membership is cancelable any time after I buy these three books. A shipping and handling charge is added to all shipments.

Send no money. Members are billed when books arrive.

Indicate by number the 3 books you want.

Some expensive books count as 2 selections.

Name

Address

City  State  Zip

Book selections purchased for professional purposes may be a tax-deductible expense.

# THE LIFE LIBRARY OF PHOTOGRAPHY CAN HELP YOU...

## ***EXPAND YOUR CREATIVE SKILLS***

The skilled photographer—looking through his viewfinder—fashions one picture out of many possibilities. He considers the basic components: shape, texture, color. He determines how these components interact to achieve balance, rhythm, proportion. He is an artist creating a picture.

The LIFE LIBRARY OF PHOTOGRAPHY can help you develop and expand your creative skills. The Editors of TIME-LIFE BOOKS have selected hundreds of outstanding photographs to illustrate both special techniques and individual styles. The portraits of Mathew Brady . . . the social commentary of Lewis W. Hine . . . the abstractions of Man Ray . . . the landscapes of Ansel Adams . . . the color creations of Ernst Haas . . . the advertising art of Richard Avedon . . . action sports photos by Dick Meek . . . photojournalistic essays by Leonard McCombe. This incredible collection is yours to study, to enjoy, now—and for years to come—in the LIFE LIBRARY OF PHOTOGRAPHY.

## ***DEVELOP YOUR TECHNICAL ABILITY***

Whether you're a serious amateur or a professional photographer . . . shooting in black-and-white or color . . . in a studio or outdoors . . . using models or your own children . . . the LIFE LIBRARY OF PHOTOGRAPHY can help you increase your technical ability and avoid wasting time, effort and money when you shoot, develop, print, frame pictures.

The scope and detail of this TIME-LIFE BOOKS series on photography will astound you. TIME-LIFE's greatest photographers and lab technicians explain intricate procedures and sophisticated techniques concisely . . . logically . . . in step-by-step instructions. In addition, there are detailed descriptions of the latest photographic equipment—cameras, lenses, filters, light meters, plus studio and darkroom fixtures. The LIFE LIBRARY OF PHOTOGRAPHY brings you tips and trade secrets from the world's top professionals to help you make the most of your photographic skills. See for yourself with *The Camera* your introductory volume to the LIFE LIBRARY OF PHOTOGRAPHY. It's yours, free, for 10 full days.

**TIME LIFE BOOKS** To: TIME-LIFE BOOKS  
Department 4450, Time & Life Building, Chicago, Ill. 60611

Yes, I would like to examine *The Camera*. Please send it to me—together with the illustrated *Photographer's Handbook*—for 10 days' free examination and enter my subscription to LIFE Library of Photography. If I decide to keep *The Camera*, I will pay \$7.95 (\$8.95 in Canada) plus shipping and handling. I then will receive future volumes in the LIFE Library of Photography series, shipped a volume at a time approximately every other month. Each is \$7.95 (\$8.95 in Canada) plus shipping and handling and comes on a 10-day free examination basis. There is no minimum number of books that I must buy, and I may cancel my subscription at any time simply by notifying you.

If I do not choose to keep *The Camera* and the *Photographer's Handbook*, I will return the books within 10 days, my subscription for future volumes will be canceled, and I will not be under any further obligation.

NAME \_\_\_\_\_ (Please Print)  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_



### **From *The Camera***

How to use blurring, panning and other techniques to get good sports action pictures without using expensive professional equipment.



### **From *Color***

How to achieve balanced color by first determining the color temperature of the light source and then matching both film and filters to that temperature.

How to use sandwiching, solarization, masking and posterization to achieve synthetic color effects.



### **From *Special Problems***

How to protect both film and equipment when shooting in hazardous weather conditions.

How to get high black-and-white contrast by underexposing a film and then overdeveloping it.



### **From *The Print***

How to use dodging and burning-in to adjust the printing exposure from area to area.



### **From *Light and Film***

How to achieve bizarre, luminous effects with infrared film.



### **From *The Studio***

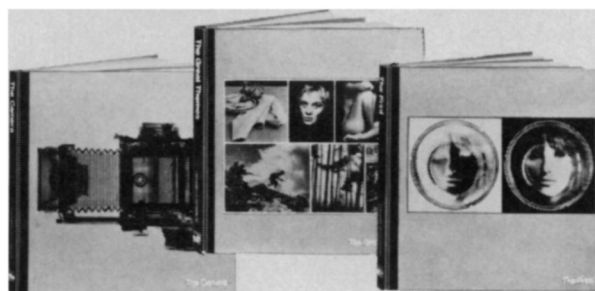
How to use *tilt, swing, rise and fall* and *shift* (either separately or in combination) to get the most out of a view camera.



### **From *Photographing Nature***

How to eliminate glare or haze in landscape photography by using the proper filters.

- Actual Book Size: 10¼" x 10¼"
- Hard cover, silver-stamped black cloth binding
- Each book contains more than 200 pages with as many as 300 monochrome and color pictures



## **FOR A 10-DAY FREE TRIAL OF THE CAMERA MAIL THIS COUPON**

### **WITH YOUR COPY OF *THE CAMERA***

A 64-page *Photographer's Handbook* with hundreds of tips on exposure setting, film types, filters. It's spiral-bound to lie flat, fits handily into pocket or camera bag. The *Photographer's Handbook* contains over 150 photos, charts, tables and drawings.

