

# SCIENCE NEWS

A Science Service Publication  
Volume 119/May 30, 1981/No. 22

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**COVER:** This fiberoptic cable contains 12 ribbons, each encapsulating 12 glass fibers. One similar to it was used to carry voice, television and data signals in an experiment in Atlanta. Now, communication by fiber optics is moving from the experimental stage to routine use. See story p. 346. (Photo: Bell Labs)

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**Editorial and Business Offices**  
1719 N Street, N.W.  
Washington, D.C. 20036

**Subscription Department**  
231 West Center Street, Marion, Ohio 43302

Subscription rate: 1 yr., \$19.50; 2 yrs., \$34.00; 3 yrs., \$47.50 (Add \$3 a year for Canada and Mexico, \$4 for all other countries.) Change of address: Four to six weeks' notice is required. Please state exactly how magazine is to be addressed. Include zip code. For new subscriptions only call: (1) 800-247-2160.

Printed in U.S.A. Second class postage paid at Washington, D.C. Title registered as trademark U.S. and Canadian Patent Offices.

Published every Saturday by SCIENCE SERVICE, Inc. 1719 N St., N.W., Washington, D.C. 20036. (202-785-2255)  
ISSN 0036-8423

MAY 30, 1981

# BOOKS

BOOKS is an editorial service for readers' information. To order any book listed or any U.S. book in print please remit retail price, plus 50¢ handling charge for each book to **Book Order Service**, Science News, 1719 N Street, N.W., Washington, D.C. 20036. All books sent postpaid. Domestic orders only.

**ABORTION AND MORAL THEORY**—L. W. Sumner. Adopts the position that the threshold of sentence constitutes the boundary by which the morality of abortion should be determined. Princeton U Pr, 1981, 246 p., \$16.50, paper, \$4.95.

**CANCER CAUSING CHEMICALS**—N. Irving Sax. The first section includes chapters discussing the relevance of carcinogenesis to the general population, carcinogens in the workplace, the processes being used to control them and how big business handles the problem of carcinogens. The second section lists, and in many cases discusses, the 2,400 currently known carcinogens and includes for each rates of carcinogenicity. The inclusion of 25,000 synonyms and cross references adds to the usefulness of this book. Van Nos Reinhold, 1981, 466 p., color/b&w illus., \$39.95.

**CLEAN COAL/DIRTY AIR: or How the Clean Air Act Became a Multibillion-Dollar Bail-Out for High-Sulfur Coal Producers and What Should Be Done About it**—Bruce A. Ackerman and William T. Hassler. With a new vision of administrative law Congress passed the Clean Air Act in 1970. This book sifts a decade's experience of one of the experiments in administrative lawmaking written into this act. Also focuses on the future of coal-burning power plants. Yale U Pr, 1981, 193 p., \$20, paper, \$5.95.

**THE CONDENSED CHEMICAL DICTIONARY, 10th ed.**—revised by Gessner G. Hawley. A revised compendium of technical data and descriptive information covering many thousand chemicals and chemical phenomena organized in such a way as to meet the needs of those who have only a few minutes to devote to any given substance or topic. Technical descriptions of chemicals, raw materials and processes, definitions of chemical entities, phenomena and terminology along with descriptions of a wide range of trademarked products used in chemical industries are included. Van Nos Reinhold, 1981, 1135 p., \$42.50.

**THE EVOLUTION OF HUMAN SEXUALITY**—Donald Symons. Examines the differences between men and women. Our behavioral patterns, the author believes, were laid down in the hunter/gatherer stage of human existence with reproduction success the key to the evolution of human sexuality. Originally published in hardback in 1979. Oxford U Pr, 1981, 358 p., paper, \$6.95.

**GRAVITY, BLACK HOLES AND THE UNIVERSE**—Iain Nicolson. Shows how our ideas on forces, motion and gravity developed from earliest times to the triumphant syntheses achieved by Newton and by Einstein. Explores in detail two areas in which gravity plays a significant role—black holes and the structure and evolution of the universe. Examines the present and future of general relativity and alternative theories of gravitation. Wiley, 1981, 264 p., illus., \$24.95.

**HARPER & ROW'S COMPLETE FIELD GUIDE TO NORTH AMERICAN WILDLIFE: Eastern Edition**—Henry Hill Collins, Jr. More than 10 years in preparation this single-volume field guide covers all major families of larger wildlife in the U.S. and temperate Canada east of the 100th meridian. Seven major animal groups are included—birds, mammals, reptiles, amphibians, fresh and salt water fish, mollusk and other marine invertebrates. Intended for both professional and amateur field natural scientists. Har-Row, 1981, 714 p., color/b&w illus., \$17.50, vinyl binding, \$12.95.

**HARPER & ROW'S COMPLETE FIELD GUIDE TO NORTH AMERICAN WILDLIFE: Western Edition**—Jay Ellis Ransom. 1,800 species of wildlife found west of the 100th meridian in the U.S. and Canada are described by appearance, habitat, life zones, behavior, reproduction and other important aspects. Color plates and black and white drawings enhance the text. Drawings of animal tracks aid in identification. Har-Row, 1981, 809 p., color/b&w illus., \$17.50, vinyl binding, \$12.95.

**IT'S ALL RELATIVE: Einstein's Theory of Relativity**—Necia H. Apfel. A simple science book that explains the basic principles of Einstein's theory. Using word pictures and illustrations that greatly enhance the text, the author presents such concepts as the relationship between space and time, gravitation and acceleration, the bending of light, black holes and the curvature of space. Lothrop, 1981, 141 p., illus., diagrams by Yukio Kondo, \$9.95.

**THE MAPMAKERS**—John Noble Wilford. The story of how earth and then earth's nearest neighbor came to be mapped. The story has many characters: scholars and scientists, soldiers and sea captains, explorers and adventurers, monks and clockmakers, to name a few. The first two parts of the book are devoted to the achievements of cartography and geodesy prior to the 20th century. The rest of the book focuses on the 20th century, a time of new technologies, when so much that was once thought unmappable has come to be mapped. Knopf, 1981, 414 p., illus., \$20.

**THE NATURAL HISTORY OF THE MIND**—Gordon Rattray Taylor. Examines in detail the intricate nature of subjective experience in light of recent neuroscientific knowledge. Originally published in hardback by E. P. Dutton in 1979. Penguin, 1981, 370 p., illus., paper, \$4.95.

**PROGRAMS OF THE BRAIN: Based on the Gifford Lectures, 1975-7**—J. Z. Young. Shows how various parts of the brain work together to produce a unified operating system, based on the hypothesis that the most important acts of human life are responses to other people. Originally published in hardback in 1978. Oxford U Pr, 1981, 325 p., illus., paper, \$5.95.

**A SIERRA CLUB NATURALIST'S GUIDE TO THE NORTH ATLANTIC COAST: Cape Cod to Newfoundland**—Michael and Deborah Berrill. A detailed survey of the amateur naturalist of the diverse species inhabiting this area, with special attention to the interactions that create coherent ecological communities. Includes a concise geological history of the region, shows how glacial activity carved the coast and how wave and tidal action modified it and explains the currents, climate and weather, which affect coastal ecology. Sierra (Scribner), 1981, 464 p., line drawings by Rob Tuckerman, color/b&w illus., \$24.95, paper, \$10.95.

**THE URGE TO DIE: Why Young People Commit Suicide**—Peter Giovacchini. The rate of teenage suicides has tripled over the past 25 years. The author, a psychiatrist known for his work with adolescents, discusses this tragedy and what can be done about it. Macmillan, 1981, 216 p., \$12.95.

**THE WHISPERINGS WITHIN: Evolution and the Origin of Human Nature**—David Barash. This book is an invitation, according to the introduction, to explore the latest findings of genetics and ecology as applied to human behavior. "It is a speculative excursion into human sociobiology." Originally published in hardback by Harper & Row in 1979. Penguin, 1981, 274 p., \$3.95.

**THE WIND POWER BOOK**—Jack Park. Explains the technology as well as the theory of wind power. Describes wind energy resources, wind power systems, wind machine fundamentals and design, and building a wind power system. Cheshire (Van Nos Reinhold), 253 p., illus., \$19.95, paper, \$11.95.

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