

# 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 \$2.00 postage and handling charge for each book, to **Science News Books**, 1719 N St., N.W., Washington, DC 20036. To place Visa or MasterCard orders, call 1-800-544-4565. All books sent postpaid. Domestic orders only. Please allow 4-6 weeks for delivery.

**About Time: Einstein's Unfinished Revolution** — Paul Davies. Davies, a theoretical physicist, picks up on the questions of time that were raised, but not answered, by Einstein in his theory of relativity. He addresses such questions as Was there a beginning of time, and will there be an end? What makes time "flow" from past to present to future? Is the universe much older than we thought? A thorough discussion of quantum physics relative to time and of groundbreaking work in cosmology and other fields makes up this treatise on theories about time. S&S, 1995, 316 p., b&w illus., hardcover, \$24.00.

**At the Fringes of Science** — Michael W. Friedlander. The line between science and pseudoscience runs less straight than many believe, notes Friedlander, a physics professor at Washington University. He uses some entertaining case histories — ranging from astrology and UFOs to cold fusion to ideas once rejected and now dogma — to examine the difference. And he includes an excellent explanation of the scientific method and how scientists use it to distinguish science from pseudoscience. Westview Pr, 1995, 196 p., hardcover, \$24.95.

**Explorations: My Quest for Adventure and Discovery Under the Sea** — Robert D. Ballard with Malcolm McConnell. Scientist, educator, explorer, adventurer, Ballard has earned an international reputation with such discoveries as the final, deepwater resting places of the ocean liner *Titanic* and the Roman trading vessel *Isis*. In this very personal book, he recounts his most famous descents and his explorations of natural phenomena and human artifacts lying beneath the sea's surface. Hyperion, 1995, 407 p., b&w photos and color plates, hardcover, \$24.95.

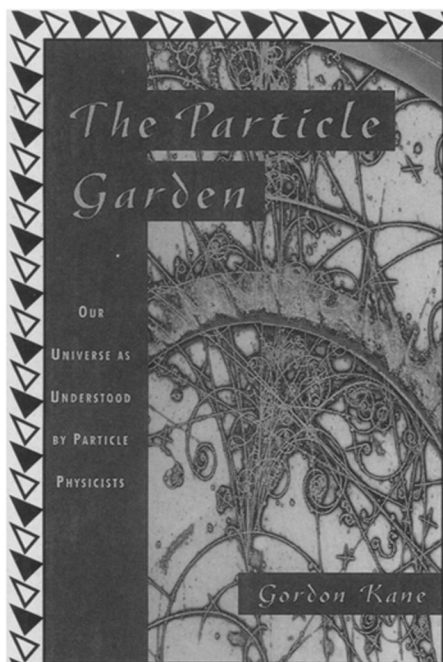
**Hard Evidence: How Detectives Inside the FBI's Sci-Crime Lab Have Helped Solve America's Toughest Cases** — David Fisher. As timeless as Sherlock Holmes and as immediate as the O.J. Simpson murder trial, *Hard Evidence* explores forensic science. Through the work of the FBI's crime lab, Fisher explains how high-tech science can identify criminals from John Dillinger to the World Trade Center bombers. And he details the FBI's ballistics investigation of the Kennedy assassination, refuting some popular conspiracy theories. S&S, 1995, 316 p., hardcover, \$23.00.

**Knotted Tongues: Stuttering in History and the Quest for a Cure** — Benson Bobrick. Stuttering, which afflicts some 2.5 million U.S. residents, has baffled and intrigued analysts for more than 2,500 years. In this social history, Bobrick describes suggested causes of the disorder over the centuries, the impact of the disorder on stutterers' lives, and past therapeutic efforts — including an American Indian practice of having stutterers spit through a board "to get the devil out of their throats." S&S, 1995, 240 p., hardcover, \$22.00.

**Receptors** — Richard M. Restak. During the past 50 years, discoveries in the area of neuropsychiatry have presented unlimited possibilities for the pharmaceutical treatment of mental and emotional disorders. Restak, a neurologist and neuropsychiatrist, shows how the brain functions — especially nerve cell receptors and neurotransmitters — delineates its physiology, and links these workings to drugs, both legal and illicit, that alter mind function. Discussion of the positive attributes of these drugs for treating the mentally ill, controlling memory loss, and reversing substance addiction is followed by a discourse on the possibility of manipulating personality in the future. Originally published in hardcover in 1994. Bantam, 1995, 228 p., paperback, \$12.95.

**The Young Oxford Companion to Maps and Mapmaking** — Rebecca Steffoff. This encyclopedia of cartography covers more than 350 geographic terms, mapmaking techniques (ancient to futuristic), cartographic terminology, biographies of mapmakers and explorers, important explorations and maps, and professional organizations. Appropriate for readers of high school age and beyond, this general overview of the field includes numerous additional texts for anyone seeking further knowledge. OUP, 1995, 303 p., color and b&w illus., hardcover, \$35.00.

*To order by Visa or MasterCard,  
call 1-800-544-4565  
In D.C. Area: 202-331-9653*



**To order by phone from  
Science News Books, call  
1-800-544-4565  
(Visa or MasterCard Only)  
In D.C. Area: 202-331-9653**

*Addison Wesley, 1995, 224 pages,  
5 1/2" x 8 1/2", hardcover, \$22.00*

As recently as 1960 we did not know of the up quarks and down quarks that combine with electrons to form everything from atoms to stars at the farthest reaches of the universe. Today, there is a successful theory — called the "Standard Theory" of particle physics — that describes what constitutes matter, what forces act on particles, and what rules govern interactions. In *The Particle Garden*, Professor Gordon Kane provides a lucid, non-technical survey of particle physics including a full explication of the Standard Theory, its experimental foundations, and its implications for understanding how our universe works.

*The Particle Garden* begins with a fascinating history of how scientists arrived at their current understanding of the underlying laws of the universe. Then Kane shows how groups of physicists build and use giant accelerators and colliders to "see" things a million million times smaller than what scientists could observe using the first microscopes four centuries ago.

In the latter third of the book, Kane explains how the Standard Theory is being extended to incorporate such ongoing research topics as Higgs bosons, supersymmetry, dark matter, and superstrings. And, perhaps most exciting is a "supersymmetric grand unification." In *The Particle Garden*, Gordon Kane marshals his research and teaching experience to make these efforts clear and significant to all of us.

—from Addison Wesley

Science News Books, 1719 N Street, NW, Washington, DC 20036

PartGardenH

Please send me \_\_\_\_\_ copies of *The Particle Garden*. I include a check payable to Science News Books for \$22.00 plus \$2.00 postage and handling for each book (total \$24.00). Domestic orders only.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Daytime Phone \_\_\_\_\_

(used only for problems with order)

RB2260