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**Bird Flight: An Illustrated Study of Birds' Aerial Mastery** — Richard Burton. A comprehensive explanation of the intricacies of bird flight, including flock coordination, thermal soaring, migration, banking and braking, takeoff, underwater flight and much more. Diagrams and beautiful full-color photographs, including contributions from some of the world's best wildlife photographers, supplement the nontechnical descriptions of flight dynamics. Facts on File, 1990, 160 p., color illus., hardcover, \$24.95.

**The Emergence of Animals: The Cambrian Breakthrough** — Mark A.S. McMenamin and Dianna L. Schulte McMenamin. Paleontologists have long speculated about the explosive diversification of animal life at the beginning of the Cambrian period, 500 million to 600 million years ago. What phenomena delayed the proliferation of animals, and what caused their sudden variety after the Precambrian period? Writing for the general reader and supporting their conclusions with numerous illustrations, the authors review current research on Precambrian and early Cambrian animal fossils for clues to this mystery. Columbia U Pr, 1990, 217 p., illus., hardcover, \$35.00, paperback, \$17.00.


**The Emergence of Language: Development and Evolution** — William S-Y. Wang, Ed. This collection of articles from *SCIENTIFIC AMERICAN* explains for lay readers the biology of language evolution and acquisition. The articles are organized into sections on communication among animals, the cultural origins of language, the psychobiological bases of language, and acquisition of words and language among children. Includes discussions of Creole languages, the origins of writing, language specializations of the human brain, the acoustics of the singing voice, and dyslexia as a language disorder. Well illustrated with photographs, diagrams and charts. A *Readings from Scientific American Magazine* book. W H Freeman, 1990, 182 p., color/b&w illus., paperback, \$11.95.

**A Guide to Remote Sensing: Interpreting Images of the Earth** — S.A. Drury. Although remote sensing has become a routine tool in military intelligence, its numerous civilian applications remain underused and poorly understood, according to Drury. This comprehensive guide explains the scientific principles behind the latest remote sensing techniques — such as line scanners, passive microwave imaging and radar imaging — and the various applications of those techniques in agricultural management, mineral and oil exploration, locating water supplies, and more. Spectacular full-color satellite images supplement the semitechnical text. Oxford U Pr, 1990, 199 p., color/b&w illus., hardcover, \$85.00, paperback, \$39.95.

**On the Shoulders of Giants: New Approaches to Numeracy** — Lynn Arthur Steen, Ed. Written for the National Research Council, this report highlights new mathematical concepts and explains how educators can integrate them into mathematical curricula. Essays on change, shape, dimension, uncertainty and quantity encourage educators to introduce these concepts to children at an early age — through blocks, sports scores, kaleidoscopes and more — to foster a continuously increasing understanding of the patterns of mathematics rather than the discrete jumps made in the traditional path from arithmetic to algebra to calculus. Includes many possible methods of introducing and representing key concepts. Natl Acad Pr, 1990, 232 p., illus., hardcover, \$17.95.

**Seasons of Life: Our Dramatic Journey from Birth to Death** — John Kotre and Elizabeth Hall. Kotre, a psychology professor, and Hall, a journalist, contend that human development follows three distinct clocks: the biological clock, measuring how we age and grow; the social clock, set by familial and societal norms; and the psychological clock, an individual's unique sense of timing. These clocks divide life into stages — infancy, childhood, adolescence, and early, middle and late adulthood — characterized by similar experiences even among people whose lives have little in common. The authors use dozens of thought-provoking narratives from people in each stage of life to illustrate the developmental time-tables. Little, 1990, 421 p., illus., hardcover, \$24.95.

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HarperCollins, 1990, 236 pages, 5 3/4" x 8 1/2", hardcover, \$17.95

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