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The Age of Intelligent Machines — Raymond Kurzweil. A well-illustrated, comprehensive introduction to artificial intelligence. Kurzweil, a computer scientist and inventor, examines the quest to understand and recreate human intelligence, reviewing the philosophical, mathematical and electronic roots of such investigations as well as current technology and future research directions. Writing for the general reader, Kurzweil includes chapters on the science of art and the social impact of artificial intelligence, and supplements each section with beautiful full-color photographs and articles by artificial-intelligence experts. MIT Pr. 1990. 565 p., color illus., hardcover, \$39.95.

Beyond the Petroleum Age: Designing a Solar Economy — Christopher Flavin and Nicholas Lenssen. This Worldwatch Institute study examines the technology available for harnessing renewable energy resources, including sunlight, wind, falling water and geothermal power, and reviews the findings and current status of international efforts to tap renewable energy. Flavin and Lenssen cover the economics of alternative energy sources and of a society dependent upon them, as well as examining the policy changes necessary to initiate the transition away from fossil fuels. Paper number 100 in the Worldwatch series. Worldwatch. 1990. 65 p., charts, paperback, \$4.00.

Einstein's Moon: Bell's Theorem and the Curious Quest for Quantum Reality — F. David Peat. Writing for lay readers, the author describes the development of quantum theory and the philosophical problems it poses. Peat also explains Bell's theorem — developed in 1964 to test the nature of reality — and the experiments conducted to determine whether objective reality, reflected in physical laws, applies to the world of the atom (as argued by Einstein) or whether events on the atomic level "just happen" and are best described by probabilities (as suggested by quantum theory). Contemp Bks., 1990, 170 p., illus., hardcover, \$18.95.

The Encyclopedia of Evolution: Humanity's Search for Its Origins — Richard Milner. A comprehensive, easily accessible encyclopedia covering every aspect of the search for humanity's origins, including religion, law and culture. Alphabetically arranged entries range from Planet of the Apes to orthogenesis and Piltown man, and many provide suggestions for further reading. Illustrated with photographs and sketches. Facts on File, 1990, 470 p., illus., hardcover, \$45.00.

Frozen Fauna of the Mammoth Steppe: The Story of Blue Babe — R. Dale Guthrie. A concise account of the scientific excavation of "Blue Babe" — a 36,000-year-old bison mummy frozen and preserved in the arctic tundra. With photographs and drawings, Guthrie retraces the detective work used to determine the circumstances of the animal's death, its appearance in life, and the landscape it inhabited. Includes hypotheses about the paleoecology of the Mammoth Steppe. U of Chicago Pr, 1990, 323 p., illus., hardcover, \$40.00, paperback, \$16.95.

Nature's Chaos — Eliot Porter and James Gleick. A visual celebration of patterns in nature. Gleick's essay and Porter's spectacular color photographs illustrate how order can arise spontaneously out of nature's disorder. In many instances, those patterns resemble fractals — mathematical forms that repeat themselves on small and large scales. Examples of fractal-forming processes range from the formation of a snowflake to the branching of a lightning bolt, and the fractal forms presented include the cracks in drying mudbeds and lichen creeping across exposed rock. Viking, 1990, 125 p., color illus., hardcover, \$29.95.

Of Kinkajous, Capybaras, Horned Beetles, Seladangs: and the Oddest and Most Wonderful Mammals, Insects, Birds, and Plants of Our World — Jeanne K. Hanson and Deane Morrison. This captivating, trivia-packed book briefly describes for the lay reader some of the most unusual specimens of Earth's flora and fauna — from fish with bifocal eyes and toads that squirt blood to 15-pound flowers measuring a yard across. HarperCollins, 1990, 283 p., illus., hardcover, \$18.95.

The Total Penguin — James Gorman. A beautifully illustrated survey of the penguin throughout history and of the 18 extant penguin species. Gorman is alternately playful and serious as he describes penguins' natural history, examines each species for signs of the stereotypical penguin — silly, stately, curious and cute — and traces their centuries-long relationship with humans. Illustrated with spectacular full-color photographs by Frans Lanting. Prentice Hall Pr, 1990. 191 p., color illus., hardcover, \$29.95.

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