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Artificial Minds — Stan Franklin. Touting himself as a "mathematician turned computer scientist turning cognitive scientist," Franklin tours the most promising work on mechanisms of the mind. He contends that research into artificial intelligence is soon to be reality and argues that we should be concerned not about whether a machine can think, but rather about how much mental ability a particular artificial system exhibits. Other relevant topics Franklin discusses include animal minds, Robert Ornstein's multimind, Marvin Minsky's society of mind, Gerald Edelman's neural Darwinism, and Douglas Hofstadter and Melanie Mitchell's Copycat computer program. MIT Pr, 1995, 449 p., b&w illus., hardcover, \$30.00.

Edwin Hubble: Mariner of the Nebulae — Gale E. Christianson. The great astronomer's significant professional accomplishments and quirky persona shine forth in this biography written with considerable style and rife with intriguing tales about Hubble and his colleagues. FS&G, 1995, 474 p., b&w plates, hardcover, \$27.50.

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The End of Evolution: On Mass Extinctions and the Preservation of Biodiversity — Peter Ward. The author of *On Methuselah's Trail* contends that a third mass extinction of life on Earth is well under way at the hands of humans. Pointing to the two most significant and recent extinctions—of 245 million and 65 million years ago—he argues that neither was completely sudden and that each had a number of causes and a complex history. Both extinctions were marked by temperature changes and drops in sea level—indicators that appear on Earth today. Ward goes on to cite other, more specific indicators supporting his thesis, such as the virtual eradication of the tropical forests in Asia by the year 2000. Originally published in hardcover in 1994. Bantam, 1995, 301 p., b&w photos and illus., paperback, \$12.95.

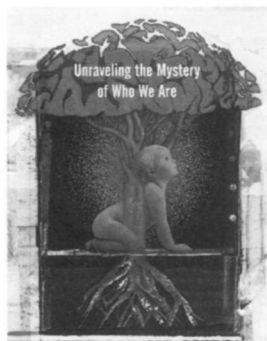
Nutrition for a Healthy Pregnancy: The Complete Guide to Eating Before, During, and After Your Pregnancy — Elizabeth Somer. In this reference, Somer outlines systematically the link between nutrition and pregnancy. From how food can improve fertility and prevent birth defects to dietary suggestions to help avoid postpartum depression, she explains the role of food and good nutrition. Numerous scientific studies bolster her descriptions of what foods to avoid, how to choose the right vitamin and mineral supplements, what dietary guidelines women over 35 should follow, how diet can help prevent morning sickness and food cravings, and what food and nutrients are necessary for nursing. H Holt & Co, 1995, 361 p., paperback, \$14.95.

The Old Way of Seeing: How Architecture Lost Its Magic (And How to Get It Back) — Jonathan Hale. Reminiscent of the days when buildings seemed to stand in harmony and reflect expression, Hale's book argues that modern buildings are ugly, faceless objects. He contends that this change is due to the way that modern architects and designers view a structure. Here he tries to recapture the vision of Victorian architects by outlining the principles that animate beautiful buildings. Originally published in hardcover in 1994. HM, 1995, 241 p., b&w photos and illus., paperback, \$14.95.

The Only Math Book You'll Ever Need — Stanley Kogelman and Barbara R. Heller. This revised edition helps people figure out those real-life word problems. Learn how to apply the appropriate mathematical concepts to such dilemmas as how to figure investment growth, convert units of foreign currency, and calculate how much paint you need to cover your walls. Originally published in hardcover in 1994. HarperPerennial, 1995, 268 p., b&w illus., paperback, \$13.00.

Through a Universe Darkly: A Cosmic Tale of Ancient Ethers, Dark Matter, and the Fate of the Universe—Marcia Bartusiak. Bartusiak recounts the work of famous and not-so-famous scientists who have dedicated their lives to probing a mystery first raised by the Greek philosopher Thales: Of what is the universe composed? A comprehensive and entertaining look at the history and future of our understanding of the universe. Originally published in hardcover in 1993. Avon, 1995, 383 p., b&w photos and illus., paperback, \$12.50.

The Roots of the Self



ROBERT ORNSTEIN

AUTHOR OF THE EVOLUTION OF CONSCIOUSNESS

HarperSanFrancisco
1995, 240 pages
7 1/2" x 9 1/2",
paperback,
\$12.00



- Why do some meet new people with enthusiasm while others feel dread?
- Why do some shop for Christmas in August while others wait until December 24?
- Why do some relax with TV or books and others with daredevil sports?

Ornstein illuminates the science of the self by showing the intricate building blocks of genetics (sex, eye color, etc.) and environment (family size, birth order, etc.) that shape us from womb to grave, as well as the equally important but little understood bedrock foundations of temperament.

Citing dozens of sometimes startling examples and studies, Ornstein challenges our assumptions about how we become who we are. He shows, for example, that families have little effect on personality but that a tendency toward criminality and violence can indeed be hereditary.

Ornstein reveals the biological basis of extroversion and introversion, organization and spontaneity, and optimism and pessimism to reveal the "basic rootstock of individuality" — and its revolutionary implications. Determining how we will respond to stimuli ranging from light and noise to parties, public speaking, exams, and sexual partners, these three main roots of each unique individual are deep-rooted and enduring. Recognizing them allows us to understand how the individual, like the plant, proceeds to flower differently based on the soil of its environment, treatment by its gardeners, and the whims of weather.

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