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Billions and Billions: Thoughts on Life and Death at the Brink of the Millennium—Carl Sagan. This reflective collection of mostly republished essays spans a wide variety of topics and evokes the spirit of the great astronomer and science writer. From the origins of chess and of the association of the phrase "billions and billions" with his name to politics and religion, global warming, the status of humanity, and Sagan's battle with cancer, these essays capture his feelings about the future of Earth as the turn of the century approaches without him. Random, 1997, 241 p., b&w photos/illus., hardcover, \$24.00.

Computer: A History of the Information Machine—Martin Campbell-Kelly and William Aspray. This chronicle of the now ubiquitous computer blends both the technological and the business history behind the marketing and development of these machines. From the earliest manual information processing machines and calculating systems to ENIAC, the first fully electronic computer produced for the military, to the strategy behind Microsoft Windows, readers will get the rich story of a technology which has accelerated dramatically within the last few years, but was actually a long time coming. Originally published in hardcover in 1996. Basic, 1997, 342 p., b&w photos, paperback, \$15.00.

The End of Science: Facing the Limits of Knowledge in the Twilight of the Scientific Age—John Horgan. Frank discussions of a variety of topics, including superstrings, *Star Trek*, plectics, robotics, cellular automata, and neural Darwinism, by those most involved with them—Fred Hoyle, Noam Chomsky, John Wheeler, and Clifford Geertz, among others—address Horgan's adversarial theses: Have we learned all there is to know? If the end is here, then what is the purpose of science? Limits imposed by pure science itself—quantum mechanics dictating that our knowledge of the microrealm will always be uncertain—make the practice of pure science increasing difficult, he argues. Originally published in hardcover in 1996. Broadway, 1997, 322 p., paperback, \$15.00.

Good Nights: How to Stop Sleep Deprivation, Overcome Insomnia, and Get the Sleep You Need—Gary Zammit. The director of the sleep disorders clinic at St. Luke's-Roosevelt Hospital advises his restless readers to seek the cause of their sleeplessness, be it anxiety, depression, pain, or something else, and to understand the effects and symptoms of sleep deprivation. He then outlines a plan he uses in his clinic for overcoming this problem, including keeping a sleep log, exercising, and regulating food and caffeine intake at bedtime. Chapters addressing sleeplessness in children and the use of sleeping pills round out the volume. Andrews & McMeel, 1997, 242 p., hardcover, \$22.95.

The Hunt for Life on Mars—Donald Goldsmith. The revelation that an ancient meteorite found 10 years ago in Antarctica harbors signs of life on Mars "rocked the world." Astronomer Goldsmith tries the case for life on Mars in a "scientific courtroom." There, the discoverers of ALH 84001, as the sample is known, and other scientific researchers recount their study of the meteorite and the controversy engulfing it. The expert witnesses provide opinions about extraterrestrial life and the significance of the "ovoids" found within ALH 84001. Dutton, 1997, 267 p., b&w photos, hardcover, \$24.95.

The Mythology of Dogs: Canine Legend and Lore Through the Ages—Gerald Hausman and Loretta Hausman. Profiles of nearly 70 canine breeds feature facts about their lineage and general characteristics. In addition, each section reveals the myths and legends that bind a pup to the human race. John Steinbeck's blackjack-hustler Airedale and the dog that helped Louis Doberman make his tax collections are among the canines featured. St Martin, 1997, 278 p., b&w illus., hardcover, \$23.95.

Vital Signs 1997: The Environmental Trends That Are Shaping Our Future—Lester R. Brown, Michael Renner, and Christopher Flavin. Produced by the Worldwatch Institute, this annual review is a heavily illustrated, authoritative reference for the direction of global environmental factors. In this edition, the authors report that the market for alternative energy sources is expanding, including a 16 percent increase in the manufacturing of photovoltaic cells. Deaths from noncommunicable diseases will outnumber those from communicable diseases five to one by 2020. Norton, 1997, 165 p., b&w illus., paperback, \$12.00.

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Centuries ago, when the philosopher Zeno proposed his famous paradox involving Achilles and the tortoise, he struck at the heart of one of science's most enduring and intractable problems: How do we define the infinite?

Acclaimed science writer Richard Morris guides us on a fascinating, literate, and entertaining tour of the efforts made throughout history to make sense of the mind-bending concept of the infinite. In tracing this quest, Morris shows us how each new encounter with infinity drove the advancement of physics and mathematics.

Beginning with simple, logical puzzles and progressing to the latest cosmological theories, Morris shows how these same infinity problems helped spawn such groundbreaking scientific developments as relativity and quantum mechanics.

Though in many ways the infinite is just as baffling today as it was in antiquity, contemporary scientists are probing ever deeper into the nature of our universe and catching fleeting glimpses of the infinite in ways the ancients could never have imagined.

Ultimately, we see that hidden within the theoretical possibility of an infinite number of universes may lie the answers to some of humankind's most fundamental questions: Why is there something rather than nothing? Why are we here?
 —from Henry Holt

Henry Holt, 1997, 224 pages
 6¼" x 9½", hardcover, \$25.00

