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A Beginner's Guide to Constructing the Universe: The Mathematical Archetypes of Nature, Art, and Science — Michael S. Schneider. In an attempt to explain the relationship between numbers, shapes, nature, science, art, and self, Schneider provides a geometric outlook on nature. Through the use of geometric constructions, myth, and works of art, he shows that nature speaks in a geometric language and explains the symbolism of numbers and shapes — for example, why time is measured in sixes and why circles represent perfection. HarperCollins, 1994, 351 p., b&w illus., hardcover, \$30.00.

In the Beginning: The Birth of the Living Universe — John Gribbin. Working from the key discovery of the Cosmic Background Explorer (COBE) satellite — that the universe contains structural ripples, which some scientists view as virtual confirmation of the Big Bang theory — Gribbin seeks to answer the next question: What happened before the Big Bang? He contends that ours is one of a number of universes that may have survived by natural selection. He therefore seeks the answer to how the Big Bang occurred and whether our universe will continue to evolve. Originally published in hardcover in 1993. Little, 1995, 274 p., paperback, \$12.95.

Monsters of the Sea: The History, Natural History, and Mythology of the Oceans' Most Fantastic Creatures — Richard Ellis. Mermaid or manatee, Leviathan or whale, polyp or octopus? Throughout the ages, people have been mystified by creatures that lurk in the sea and possess enormous size or unique and often terrifying features. Ellis explores the myths and literary tales of sea monsters and uses modern marine science to demystify them, proving instead that they exist in legitimate forms. Knopf, 1994, 429 p., b&w photos and illus., hardcover, \$30.00.

Pale Blue Dot: A Vision of the Human Future in Space — Carl Sagan. In a sequel to *Cosmos*, his acclaimed book and television series, Sagan once again appeals to now wandering spirit arguing for the urgency of continued space travel and eventual space colonization. Stunning color photographs enhance his discussion of the most important discoveries made by space missions over the past 15 years. Random, 1994, 429 p., color photos and illus., hardcover, \$35.00.

Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers — Council of Biology Editors. Long considered an essential reference for biology and medical writers and editors, this sixth edition covers the physical sciences and mathematics as well. Up-to-date style and formats for scientific papers, journal articles, books, and other publications are included for both general and scientific publishing. Cambridge U Pr, 1994, 825 p., hardcover, \$34.95.

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Journal of Consciousness Studies

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Refereed articles include *A Testable Field Theory of Mind-Brain Interaction* by physiologist **Benjamin Libet**; *Quantum Coherence in Microtubules* by **Stuart Hameroff**; *Collapse of a Quantum Field May Affect Brain Function* by **Chris Nunn**; and a critique of neural reductionism by philosopher **Valerie Hardcastle**.

On a broader front, Harald Atmanspacher suggests that chaos and complexity theory could bridge the Cartesian divide, while other articles examine causality issues — from the cognitive sciences through to mysticism — and whether consciousness studies requires a new scientific epistemology. Finally, in an extended review article, David Hodgson shows why John Searle has *not* rediscovered the mind.

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