system, with special emphasis on the history of the Higgs boson, the formal structure of the Higgs Lagrangian, and the theoretical constraints on their properties. Veltman also discusses the "screening theorem," which explains why the precision measurements at CERN and SLAC are insensitive to the Higgs mass.

The book then goes beyond the standard model to treat various alternatives to the minimal Higgs boson. At present the particle physics community is engaged in a vigorous debate about whether the alternatives will be weakly or strongly coupled, and Kane has been wise to include contributions from both sides of the debate.

Ibáñez and Ross present the case for weak coupling in a beautiful report on the minimal supersymmetric standard model. They discuss in detail the radiative breaking scheme, which ties electroweak symmetry breaking to the mass of the top quark. Gunion then outlines the prospects for detecting supersymmetric Higgs bosons with existing and future colliders.

The strongly coupled scenario is presented nicely by Einhorn; his task is made difficult by the fact that, at present, there is no compelling model that agrees with experimental results. The challenge of constructing such a model is emphasized by Georgi in "Why I would be very sad if a Higgs boson were discovered," a personal view of the state of the art. The problems are also addressed by Chanowitz, who provides a thorough model-independent discussion of the strongly coupled phenomenology.

Perspectives on Higgs Physics is written by and for particle physicists. However, it should be accessible to those interested in the physics of the SSC. The contributions are of uniformly high quality and deserve to be studied by every serious student of particle phenomenology. The volume could have been strengthened by the inclusion of the current bounds on the Higgs and its couplings, even though they will soon change. Also, I think the choice of contributors is too heavily skewed toward the friends and colleagues of the editor. Even so, this is an excellent book. It should be in the collection of every particle physicist, as well as in every major research library.

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Books Received

Analytical Biochemistry. David J. Holme and Hazel Peck. 2nd ed. Longman Scientific and Technical, Harlow, Essex, U.K., and Wiley, New York, 1993. xvi, 507 pp., illus. Paper, \$49.95.

The Angry Gut. Coping with Colitis and Crohn's Disease. W. Grant Thompson. Plenum, New York, 1993. xiv, 350 pp., illus. \$26.95.

Animal Behavior. An Evolutionary Approach. John Alcock. 5th ed. Sinauer, Sunderland, MA, 1993. xiv, 625 pp., illus., + plates. \$46.95.

Animal Behaviour. Psychobiology, Ethology, and Evolution. David McFarland. 2nd ed. Longman Scientific and Technical, Harlow, Essex, U.K., and Wiley, New York, 1993. xiv, 585 pp., illus. Paper, \$47.

Biosystematic Monograph of the Genus Cucumis (Cucurbitaceae). Botanical Identification of Cucumbers and Melons. Joseph H. Kirkbride, Jr. Parkway Publishers, Boone, NC, 1993. x, 159 pp., illus., + diskette. \$47.50.

Bloodsucking Witchcraft. An Epistemological Study of Anthropomorphic Supernaturalism in Rural Tlaxcala. Hugo G. Nutini and John M. Roberts. University of Arizona Press, Tucson, 1993. xiv, 476 pp. \$40

Boeing's Ed Wells. Mary Wells Geer. University of Washington Press, Seattle, 1993. x, 179 pp., illus. \$19.95.

The Brain Has a Mind of Its Own. Insights From a Practicing Neurologist. Richard Restak. Crown, New York, 1993. xiv, 210 pp. Paper, \$12. Reprint, 1991 ed.

Cancer. Robert M. McAllister, Sylvia Teich Horowitz, and Raymond V. Gilden. Basic Books, New York, 1993. xvi, 329 pp., illus. \$22.

Chance and Chaos. David Ruelle. Princeton University Press, Princeton, NJ, 1993. xii, 195 pp., illus. Paper, \$9.95. Princeton Science Library. Reprint, 1991

Desert Geomorphology. Ron Cooke, Andrew Warren, and Andrew Goudie. UCL, London, 1993 (U.S. distributor, Taylor and Francis, Bristol, PA). viii, 526 pp., illus. Paper, \$59.95.

Deserts. The Encroaching Wilderness. A World Conservation Atlas. Tony Allan and Andrew Warren, Eds. Oxford University Press, New York, 1993. 176 pp. \$35.

Development of X-Ray Analysis XX. Lawrence Bragg. D. C. Phillips and H. Lipson, Eds. Dover, New York, 1992. viii, 270 pp., illus. Paper, \$8.95. Dover Books on Physics and Chemistry. Reprint, 1975 ed.

Developments in Partial Differential Equations and Applications to Mathematical Physics. G. Buttazzo, G. P. Galdi, and L. Zanghirati, Eds. Plenum, New York, 1992. viii, 246 pp., illus. \$69.50. From a meeting, Ferrara, Italy, Oct. 1991.

East Africa's Grasses and Fodders. Their Ecology and Husbandry. Joseph G. Boonman. Kluwer, Norwell, MA, 1993. xviii, 343 pp., illus. \$236. Tasks for Vegetation Science, 29.

Ecology and Our Endangered Life-Support Systems. Eugene P. Odum. 2nd ed. Sinauer, Sunderland, MA, 1993. xvi, 301 pp., illus. Paper, \$18.95.
Encyclopedia of Materials Science and Engi-

Encyclopedia of Materials Science and Engineering. Supplementary vol. 3. Robert W. Cahn and Michael B. Bever, Eds. Pergamon, Tarrytown, NY, 1993. xvi, 756 pp., illus. \$500. Advances in Materials Science and Engineering.

Final Choices. To Live or to Die in an Age of Medical Technology. George M. Burnell. Plenum, New York. 1993. xxii. 374 pp. \$27.50.

Fossil Elephantoids from the Hominid-Bearing Awash Group, Middle Awash Valley, Afar Depression, Ethiopia. Jon E. Kalb and Assefa Mebrate. Doris Tischler, illustrator. American Philosophical Society, Philadelphia, 1993. xvi, 114 pp., illus. Paper, \$15. Transactions of the American Philosophical Society, vol. 83, part 1.

The Foundations of Magnetic Recording. John C. Mallinson. 2nd ed. Academic Press, San Diego, CA, 1993. xvi, 217 pp., illus. \$54.50.

From Bones to Behavior. Ethnoarchaeological and Experimental Contributions to the Interpretation of Faunal Remains. Jean Hudson, Ed. Center for Archaeological Investigations, Carbondale, IL, 1993. xviii, 354 pp., illus. Paper, \$30. Occasional Paper no. 21. From a conference, 1991.

Handbook of Intelligent Control. Neural, Fuzzy, and Adaptive Approaches. David A. White and Donald A. Sofge, Eds. Van Nostrand Reinhold, New York, 1992. xx, 568 pp., illus. \$59.95.

Hate Crimes. The Rising Tide of Bigotry and Bloodshed. Jack Levin and Jack McDevitt. Plenum, New York, 1993. xviii, 287 pp. \$23.95.

Hedgemaids and Fairy Candles. The Lives and Lore of North American Wildflowers. Jack Sanders. Dawn Peterson, illustrator. Ragged Mountain (TAB), Camden, ME, 1993. viii, 232 pp., illus. \$21.95.

The Hematopoletic Microenvironment. The Functional and Structural Basis of Blood Cell Development. Michael W. Long and Max S. Wicha, Eds. Johns Hopkins University Press, Baltimore, MD, 1993. xiv, 306 pp., illus. \$140. Johns Hopkins Series in Hematology/Oncology.

In the Wake of Chaos. Unpredictable Order in Dynamical Systems. Stephen H. Kellert. University of Chicago Press, Chicago, 1993. xiv, 176 pp., illus. \$19.95. Science and Its Conceptual Foundations.

In the Wake of Galileo. Michael Segre. Rutgers University Press, New Brunswick, NJ, 1993. xxii, 192 pp., illus. Paper, \$14. Reprint, 1991 ed.

Insect Cell Culture Engineering. Mattheus F. A. Goosen, Andrew J. Daugulis, and Peter Faulkner, Eds. Dekker, New York, 1993. xii, 245 pp., illus. \$115. Bioprocess Technology, 17.

Introduction to Electronic Document Management Systems. William B. Green. Academic Press, San Diego, CA, 1993. xiv, 250 pp., illus., + plates. \$44.95.

Marine Biotechnology. Vol. 1, Pharmaceutical and Bioactive Natural Products. David H. Attaway and Oskar R. Zaborsky, Eds. Plenum, New York, 1993. xx, 500 pp., illus. \$89.50.

Marine Climate, Weather, and Fisheries. The Effects of Weather and Climatic Changes on Fisheries and Ocean Resources. Taivo Laevastu. Wiley, New York, 1993. xii, 204 pp., illus. \$49.95.

Marine Mammal Sensory Systems. Jeanette A. Thomas, Ronald A. Kastelein, and Alexander Ya. Supin, Eds. Plenum, New York, 1992. xiv, 773 pp., illus. \$149.50. From a symposium, Moscow, Oct. 1991.

Mechanisms of Molecular Evolution. Introduction to Molecular Paleopopulation Biology. Naoyuki Takahata and Andrew G. Clark, Eds. Japan Scientific Societies, Tokyo, and Sinauer, Sunderland, MA, 1993. x, 250 pp., illus. \$34.95. From a symposium, Mishima, Japan Nov. 1991

Japan, Nov. 1991.

Polymer Surfaces and Interfaces II. W. J. Feast,
H. S. Munro, and R. W. Richards, Eds. Wiley, New
York, 1993. xvi, 297 pp., illus. \$75. From a symposium,
Durham, U.K., July 1991.

Population Politics. The Choices That Shape Our Future. Virginia D. Abernethy. Plenum, New York, 1993. xx, 350 pp., illus. \$26.50.

Post-Implantation Development in the Mouse. Wiley, New York, 1992. x, 315 pp., illus. \$75. Ciba Foundation Symposium, 165. From a symposium, London, June 1991.

The Return of Common Sense. The Demise of Relativity. Robert L. Henderson. Common Sense Press, Sun City, AZ, 1992. vi, 217 pp. Paper, \$15.

Risk and Tenure In Arid Lands. The Political Ecology of Development in the Senegal River Basin. Thomas K. Park, Ed. University of Arizona Press, Tucson, 1993. xxviii, 383 pp., illus. \$29.95. Monographs on Arid Lands Development.

Robert Mayer and the Conservation of Energy. Kenneth L. Caneva. Princeton University Press, Princeton, NJ, 1993. xxiv, 439 pp., illus. \$49.50.

Rubbish! The Archaeology of Garbage. William Rathje and Cullen Murphy. HarperPerennial, New York, 1993. viii, 263 pp., illus. Paper, \$12. Reprint, 1992 ed.

Signal Transduction in Lung Cells. Jerome S. Brody, David M. Center, and Vsevolod A. Tkachuk, Eds. Dekker, New York, 1993. xvi, 639 pp., illus. \$195. Lung Biology in Health and Disease, 65. From a symposium, Woods Hole. MA. Oct. 1991.

symposium, Woods Hole, MA, Oct. 1991. **The Social Impact of AIDS in the United States.**Albert R. Jonsen and Jeff Stryker, Eds. National Academy Press, Washington, DC, 1993. xiv, 322 pp., illus.

Solid-Earth Sciences and Society. Commission on Geosciences, Environment, and Resources. National Academy Press, Washington, DC, 1993. xxii, 346 pp., illus. \$49.95.