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**Black Apollo of Science: The Life of Ernest  
Everett Just** — Kenneth R. Manning. A biog-  
raphy of a prominent American marine biologist  
who was black. Tells the fascinating story of the  
scientist and the man who was born in the  
South in the 1880s and died in Washington,  
D.C., shortly after fleeing the Nazis in Europe in  
1941. Oxford U Pr, 1983, 397 p., illus., \$29.95.

**The Doomsday Book of Animals** — David Day.  
A readable comprehensive encyclopedia of van-  
ished species that includes a description of the  
animal's behavior, habitat and appearance, as  
well as the events leading up to its demise.  
Wildlife illustrators have recreated the animals  
as they might have appeared in life with beau-  
tiful color and black and white drawings. Originally  
published in hardback in 1981. Viking Pr, 1983,  
288 p., color/b&w illus., paper, \$14.95.

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Cover: Now that they routinely make fast work of their human  
opponents, computers such as the CRAY 1 are utilizing finely tuned  
chess programs on their toughest opponents — other computers.  
The intricate programs used for computer chess are helping  
scientists to improve machine intelligence. (Photo courtesy of Cray  
Research, Inc.)



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**A Feeling for the Organism: The Life and  
Work of Barbara McClintock** — Evelyn Fox Kel-  
ler. This is "the story of the interaction between  
an individual scientist known to her colleagues  
as a maverick and a visionary, and a science, ge-  
netics, that has been distinguished in recent  
decades by extraordinary growth and dramatic  
transformation." Deals with the relationship be-  
tween creativity and validation, between indi-  
vidual and community and between one com-  
munity's conception of science and another's, all  
of which underlie the drama in McClintock's  
story and scientific research in general. WH  
Freeman, 1983, 235 p., illus., \$17.95.

**Great Scientific Experiments: 20 Experi-  
ments that Changed our View of the World** —  
Rom Harré. Experiments ranging from ancient  
Greek embryology to modern genetic engineer-  
ing. Original sources and the scientists' own  
words are used to describe each experiment.  
Captures the excitement of scientific discovery  
and allows the reader to see scientists at work.  
Originally published in England in 1981. Oxford U  
Pr, 1983, 224 p., illus., \$17.95.

**The Moment of Creation: Big Bang Physics  
From Before the First Millisecond to the Pres-  
ent Universe** — James S. Trefil. Traces the his-  
tory of discovery concerning the Big Bang back  
to within the first millisecond and discusses  
some of the problems that the conventional Big  
Bang ideas present. Describes the current un-  
derstanding of the processes that dominate the  
behavior of matter at very high energies as in-  
corporated in the unified theories, both in de-  
tailed form and as chapter summaries. Using  
the grand unification theory, Trefil continues the  
journey that brings the general reader "tantaliz-  
ingly close to the goal of reaching the moment of  
creation." Scribner, 1983, 234 p., illus., \$15.95.

**Understanding Education: Toward A Recon-  
struction of Educational Inquiry** — Walter Fein-  
berg. The author, according to the foreword,  
views the study of education as a study of the  
processes of social reproduction of intergenera-  
tional identity amid change in any society. Cam-  
bridge U Pr, 1983, 270 p., illus., \$37.50, paper,  
\$12.95.

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