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**African Images** — Ugo Mochi and Dorcas  
MacClintock. Variations of terrain and climate  
have produced an extraordinary diversity of  
animal life in Africa. Mochi's striking silhouettes  
of African animals that inhabit the forests, the  
swamps and marshes, the bush, the savannas  
and the grasslands illustrate the descriptions of  
the animals by mammalogist MacClintock.  
Scribner, 1984, 158 p., illus., \$14.95.

**Annual Review of Psychology**, Vol. 36—Mark  
R. Rosenzweig and Lyman W. Porter, Eds. The  
prefatory chapter by Harriet L. Rheingold exam-  
ines the development of behavior in terms of the  
increasing familiarity with objects, events and  
skills that an individual acquires in the course of  
living. Annual Reviews, 1985, 702 p., illus., \$27.

MARCH 23, 1985

## This Week

- 180 Basins Hasten Brewing of Oil
- 180 Gene-code variety
- 181 Serendipity catches a supernova
- 181 Subcellular life in the fast lane
- 182 Ambitious Soviet planetary plans presented at U.S. meeting
- 183 Birth trauma linked to adolescent suicide
- 183 Laser cooling: Putting atoms on ice

## Research Notes

- 186 Behavior
- 186 Biology
- 187 Science & Society
- 187 Technology

## Articles

- 188 The Fivefold Way for Crystals  
Cover: The mosaic shown, made up of two types of diamond  
shapes, is one example of a Penrose tiling. This curious  
mathematical structure has a fivefold symmetry—as seen in the  
starlike figures that dot the pattern—but it doesn't repeat itself at  
regular intervals. Such a pattern promises to be a good model for a  
newly discovered, unexpected crystal structure that may have a  
host of strange properties. (Illustration: S. Haber/NBS)
- 190 Space Science: The Longer-Term Concern



## Departments

- 178 Letters
- 179 Books

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**Brain and Psyche: The Biology of the Uncon-  
scious** — Jonathan Winson. The author here  
suggests, based on recent neuroscientific find-  
ings, a relationship between the brain and the  
psyche. Presents the physical basis for his hy-  
pothesis and gives the general reader an overall  
view of brain function. Dreaming, says the au-  
thor, is the bridge between brain and psyche.  
The second section of the book recounts and  
analyzes the psychological observations and  
theories of Freud and later psychoanalysts.  
From Winson's hypothesis emerges a view of  
what the biological origins and makeup of  
human nature may be and a need to reinterpret  
the meaning of dreams. Doubleday, 1985, 300  
p., illus., \$16.95.

**Computer Software** — Alan Kay et al. The 10  
chapters in this book first appeared in the Sep-  
tember 1984 issue of SCIENTIFIC AMERICAN. As  
Kay points out in the first chapter, software is to  
the computer as the score is to the instruments  
of music. WH Freeman, 1985, 124 p., color/b&w  
illus., paper, \$13.95.

**The Creation of Matter: The Universe from Be-  
ginning to End** — Harald Fritzsch, translated  
from the German by Jean Steinberg. Describes  
for the general reader the origin and develop-  
ment of the universe along with the quantum  
phenomena necessary to understand the Big  
Bang and why the world turned out to be as we  
find it today. The final three chapters of the book  
consider problems of philosophy and religion.  
Basic, 1984, 307 p., illus., \$19.95.

**Not in Our Genes: Biology, Ideology and  
Human Nature** — R. C. Lewontin, Steven Rose  
and Leon J. Kamin. Three outstanding scientists  
offer here an exploration of the scientific and  
social roots of biological determinism, an analy-  
sis of its present-day social function and an ex-  
posure of its "scientific pretension." Presents a  
perspective of what biology and psychology  
can offer as an alternative view of the "nature of  
human nature." Originally published in hard-  
back in 1984. Pantheon, 1985, 322 p., paper,  
\$8.95.

179