



"This scanning electron micrograph shows a population of fission yeast cells. Note the uniform cell diameter, which makes it possible to estimate the mass of cells simply by measuring their length." [From *The Cell Cycle: An Introduction*; courtesy of N. Hajibagheri]

excellent framework for following current work in this fast-moving area. Here, as throughout the book, comparison of the embryonic and somatic cell cycles, as well as the yeast and mammalian cell cycles, serves to unify the abundant data into a coherent whole.

Overall, the book has an effective structure. The chapters build upon one another and guide the reader, often posing questions (for example, "How does the passage through mitosis release the block to rereplication?") and then describing experiments that have helped to formulate answers. But no one could read this book and come away feeling that all the mysteries of the cell cycle have been solved; the persistence of unanswered questions is acknowledged (for example, "Do G1 cyclins play the same role in mammalian cells that they do in yeast?"). The authors manage to convey a lot of experimental detail, both techniques and results, without assuming much background knowledge beyond basic cell biology. Instead of cluttering up the text with citations, they have ended each chapter with a mercifully short list of suggested reading that provides a good entry point into the literature. An appendix lists the genes involved (in almost any way!) with cell cycle control—certainly useful for those who do not care for alphabet soup. It would have been helpful if this appendix had been cross-referenced to the text, especially since the index is not very comprehensive. The book contains excellent and plentiful illustrations.

This is a very useful overview of our current understanding of the cell cycle. Newcomers to the field (including well-prepared undergraduates) will find it a good place to start, and researchers who work on

the cell cycle and related problems should find the sometimes idiosyncratic Murray-Hunt world view refreshing and stimulating.

Frederick R. Cross

Kristi Levine

Rockefeller University,

1230 York Avenue,

New York, NY 10021, USA



Books Received

Accessing Antiquity. The Computerization of Classical Studies. Jon Solomon, Ed. University of Arizona Press, Tucson, 1993. xii, 186 pp., illus. \$35.

Applied Radiation Chemistry. Radiation Processing. Robert J. Woods and Alexei K. Pikaev. Wiley, New York, 1993. xii, 535 pp., illus. \$74.95.

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Beneficial and Toxic Effects of Aspirin. Susan E. Feinman, Ed. CRC Press, Boca Raton, FL, 1993. xii, 130 pp., illus. \$84.95. Pharmacology and Toxicology.

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Future Directions of Nonlinear Dynamics in Physical and Biological Systems. P. L. Christiansen, J. C. Eilbeck, and R. D. Parmentier, Eds. Plenum, New York, 1993. xvi, 557 pp., illus. \$139.50. NATO Advanced Science Institutes Series B, vol. 312. From an institute, Lyngby, Denmark, July 1992.

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Hermann von Helmholtz and the Foundations of Nineteenth-Century Science. David Cahan, Ed. University of California Press, Berkeley, 1994. xxx, 666 pp., illus. \$65. California Studies in the History of Science, 12. Based on a conference, Oct. 1990.

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Integrating Economics, Ecology and Thermodynamics. Matthias Ruth. Kluwer, Norwell, MA, 1993. xii, 251 pp., illus. \$119 or £78 or Dfl. 195. Ecology, Economy, and Environment, vol. 3.

An Introduction to Stochastic Modeling. Howard M. Taylor and Samuel Karlin. 2nd ed. Academic, San Diego, CA, 1993. xii, 566 pp., illus. \$59.95.

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Museums, Objects and Collections. A Cultural Study. Susan M. Pearce. Smithsonian Institution Press, Washington, DC, 1993. xii, 296 pp., illus. Paper, \$16.95. Reprint, 1992 ed.

Mutualism and Community Organization. Behavioural, Theoretical, and Food Web Approaches. Hiroya Kawanabe, Joel E. Cohen, and Keiji Iwasaki, Eds. Oxford University Press, New York, 1993. xii, 426 pp., illus. \$75. From a symposium, Yokohama, Japan, Aug. 1990.

A Natural History of Shells. Geerat J. Vermeij. Princeton University Press, Princeton, NJ, 1993. viii, 207 pp., illus., + plates. \$29.95 or £22.50.

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A Reference Slide Collection for Soil Micromorphology. Soil Micromorphology Committee. Soil Science Society of America, Madison, WI, 1993. 135 pp. + slides. Paper, \$50.

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Using Light. Sally and Adrian Morgan. Facts on File, New York, 1993. 48 pp., illus. \$14.95. Designs in Science.

Vaccine Design. F. Brown *et al.* Wiley, New York, 1993. vi, 130 pp., illus. \$44.95. Molecular Medical Science Series.

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A World Checklist of Birds. Burt L. Monroe, Jr. and Charles G. Sibley. Yale University Press, New Haven, CT, 1994. xx, 393 pp. \$45.

The Young Scientists. America's Future and the Winning of the Westinghouse. Joseph Berger. Addison-Wesley, Reading, MA, 1994. xii, 243 pp. \$21.95.