

proteins synthesized periodically through the cycle? In studies of proteins separated on gels and of enzyme activity, Sauer finds no evidence of periodicity in *Physarum*. Howell and Baumgartel, on the other hand, do find periodicity in *Chlamydomonas* (at any rate in the rates of synthesis) and suggest that only some of this periodicity might be due to their system of light-dark synchrony. Finally, Rao and Sunkara show from fusion experiments that there is an S-phase inducer present in the G<sub>1</sub> cytoplasm of mammalian cells. A concentration-dependent inducer either of DNA synthesis or mitosis is a familiar concept in various cell types. What is surprising here is that the inducer is not concentration-dependent. Two cells in the same stage of mid- or late-G<sub>1</sub> are accelerated into S after fusion, and, even more surprising, they are not accelerated if they are in early-G<sub>1</sub>. This paradoxical result should stimulate further work on S-phase control.

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## Celestial Mechanics

**Dynamics of Planets and Satellites and Theories of Their Motion.** Proceedings of a colloquium, Cambridge, England, Aug. 1976. VICTOR SZEBEHELY, Ed. Reidel, Boston, 1978. xii, 380 pp., illus. \$39. Astrophysics and Space Science Library, vol. 72.

This proceedings volume contains the papers presented at the 41st Colloquium of the International Astronomical Union. The volume covers planetary theory and analytical methods, numerical and other techniques, satellites of Jupiter and Saturn and artificial satellites, and gravitational problems of three or more bodies. In total 28 papers and 15 abstracts are included.

The first two parts of the book deal with planetary and lunar motion. Some interesting, highly theoretical papers are presented, mostly by European scientists and mathematicians, particularly from the Soviet Union and from France. These papers are of high quality and indicate a much-needed resurgence of analytical methods to complement the current emphasis on numerical methods.

Most of the contributions in the third part of the book discuss extensions and refinements of useful and currently popular numerical methods. One contribution, by Petrovskaya of the Leningrad Institute, introduces modifications of the geopotential expansion designed to im-

prove its convergence and usefulness at the surface of the earth.

Part 4 concerns satellites, with a number of papers giving emphasis to improving the existing analytical series solutions of the natural satellites of Jupiter and Saturn. Some of these papers are status reports of continuing research projects in the area. Several new results or new extensions of previous results are given, especially the extension of deSitter's work by Aksnes and the second-order theory of the Galilean satellites by Ferraz-Mello.

Part 5 considers periodic orbits and orbital stability. A paper by Hadjimetriou and Michalodimitrakakis presents recent major results concerning periodic orbits in the general three-body problem. Other papers report on several interesting analytical and numerical results concerning the theory of orbits. Robinson discusses the effect of a large space station at the location of the Lagrangian points. Markellos presents a new kind of periodic orbit: the asymmetric, three-dimensional periodic orbit. Message and Taylor consider asymmetric planar periodic orbits.

The overall quality of the papers is high, and there are contributions from nearly every research center in celestial mechanics throughout the world. Workers in the field will refer to this volume for many years to come.

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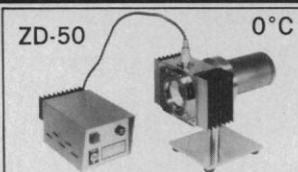
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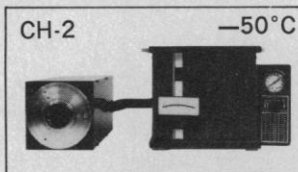
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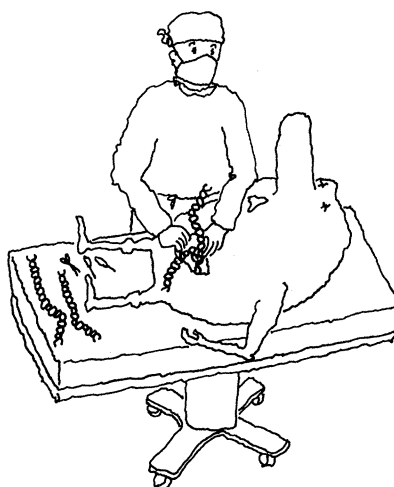
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