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Cover

Graphical representation of the motion of satellite orbits in phase space (the space whose dimensions are position and momentum). Each point fixes the orbital eccentricity and argument of perigee; color bands correspond to constant energy levels. Rendered by contour "painting" on a massively parallel processor, the plot reveals a startling configuration of equilibria spawned by pitchfork and saddle node bifurcations. See page 833. [Computer graphics generated on Thinking Machines Corporation CM-2 by Ettiene Deprit and Liam Healy, Naval Research Laboratory, Washington, DC; photographic image by Mark Stucky]
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