

What can we learn about the sun during interplanetary travel?

Studies indicate that, at some time in a planetary mission, the spacecraft may be across the solar system from the earth.

This suggests a novel experiment: studying the sun "in the round"...perhaps by telescopic observation of the far and near sides at the same time, or by sending signals through the solar corona to measure electron density or the sun's magnetic field.

At Bellcomm, systems engineering for NASA's Office of Manned Space Flight means daily work with challenging opportunities in space exploration. We need specialists in astronomy, physics, flight mechanics, guidance and navigation, communications, bioastronautics, propulsion and power. We also need astronautical and mechanical engineers with broad experience in vehicle systems or mission planning.

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brary. Current theoretical research areas at Maryland include elementary particles, quantum-field and many-body theory, general relativity, astrophysics and space physics, and nuclear, solid-state, plasma and atomic physics.

FELLOWSHIPS

NSF graduate: About 2500 awards for study leading to MS or PhD at US or foreign institutions. Stipend: \$2400 first-year level, \$2600 intermediate and \$2800 terminal level. New applicants can request one- or two-year tenures. Current fellows can apply for one year only. Applicants: US citizens or nationals, admitted to graduate status by selected school or will have been admitted prior to beginning their fellowship tenures. Deadline: 8 Dec. Apply to: NAS, 2101 Constitution Ave., N.W., Washington, D.C. 20418.

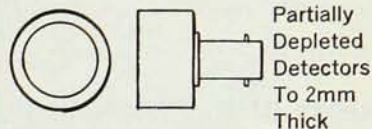
Bakhmeteff fluid mechanics: One research fellowship for 1968-69. Stipend: up to \$3600. Applicants: candidates for MS or PhD. Deadline: 15 Feb. Apply to: Dean William Allan, School of Engineering and Architecture, The City College of the City University, New York, N.Y. 10031.

AJP Begins Publication of Review-Tutorial Articles

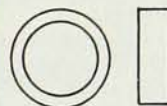
Forrest Boley, editor of the *American Journal of Physics*, has announced that AJP is publishing a continuing series of invited review-tutorial articles. Intended for both students and professionals, these papers will serve as an expository, critical introduction to a specialized topic. The articles will be well referenced reviews of the present state of a subject with particular attention to conceptual framework and rationale of various approaches in the field. The first article in the series, "Theories of the Origin of Cosmic X-Rays" by Robert Gould, appeared in the May issue of AJP, followed by "The Collective Model of the Giant Resonances" by Max Huber in August. "The Stimulated Raman Effect" by Nicolaas Bloembergen is tentatively scheduled for November. □

SILICON SURFACE BARRIER PARTICLE DETECTORS

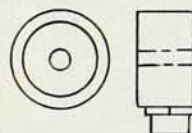
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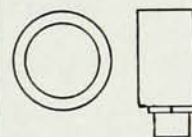
Partially Depleted Detectors To 2mm Thick



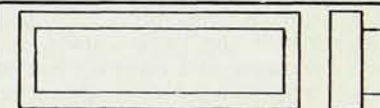
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Annular Detectors Up To 24 mm Active Diameter



Totally Depleted Detectors In Transmission Mountings



Rectangular Detectors Up To 50mm long and 15mm wide

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