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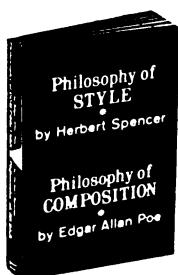
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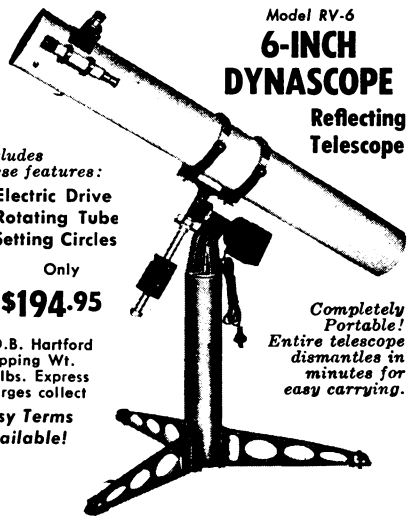
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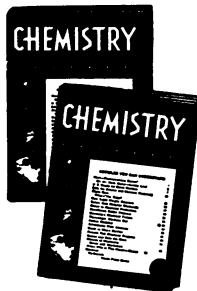
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ASTRONOMY

Image Tube Increases Telescope's Power

► IMAGE TUBES, devices that use electronic means to record the faint light of stars, are giving today's telescopes the ability to see the heavens with the light-gathering power of much large instruments.

The image tubes used on the world's second largest telescope, the 120-inch reflecting mirror at Lick Observatory, Mt. Hamilton, Calif., have given good, clear photographs, Dr. A. E. Whitford, director of Lick Observatory, reported.

He told the Optical Society of America in Los Angeles that the image tube technique promises a greater increase in the seeing power of telescopes than construction of telescopes larger than the present world's largest, the 200-inch Hale telescope atop Mt. Palomar.

Russian and English astronomers, as well as scientists at other United States observatories, are also working on developing the image-tube method.

• Science News Letter, 80:326 November 11, 1961

MEDICINE

Teen-Age Girls Can Have Cancer of the Cervix

► CANCER SMEAR TESTS may save many teenagers from unnecessary death.

Finding positive cancer smears in 77 girl patients under the age of 20 led a Miami doctor to advise smear tests for all women old enough to have routine pelvic examinations.

Generally such examinations have been restricted to women aged 30 and older because there is a high prevalence of cervical cancer among the older group.

Ten of the 77 girls had never been pregnant, but one girl had been pregnant seven times, another five times, and others several times. Girls were found with positive smears as early as 14 and 15 years of age, Dr. J. H. Ferguson of the University of Miami School of Medicine-Jackson Memorial Hospital reported in the Journal of the American Medical Association, 178:365, 1961.

Cervical screening tests have saved the lives of thousands of women by uncovering cancer when it was in the silent stage. In the preinvasive stage, cancer of the cervix has a 100% cure rate.

• Science News Letter, 80:326 November 11, 1961

Questions

INVENTION—What are the four basic methods being tested for confining plasma? p. 318.

SPACE—Which liquids were used to relight solid rocket fuel for the first time? p. 315.

Photographs: Cover and p. 319, U. S. Air Force; p. 315, General Electric Company; p. 317, Research Corporation, Science Service, United Press International; p. 318, Pan American World Airways; p. 322, Fremont Davis; p. 328, Bonscott Products, Inc.