

vented us from constructing an acceptable history of medieval science. Goldstein provides us with a remarkably well-cut stone for the task, but we are still in need of someone to erect the temple.

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Sun and Earth

Solar-Terrestrial Physics. Papers from the Inter-Union Symposium, Belgrade, Aug.-Sept. 1966. J. W. KING and W. S. NEWMAN, Eds. Academic Press, New York, 1967. 402 pp., illus. \$16.50.

This book contains the ten invited review papers given at the Inter-Union symposium on solar-terrestrial physics in Belgrade. Five topics were discussed at the symposium, and there were two review papers pertaining to each topic.

The first paper (by Lüst) gives a good description of the observed properties of the interplanetary gas and magnetic field and of the ways in which the observations are made. Together with the next paper (by Parker) it deals with the solar aspects of the solar-terrestrial relationship. These two chapters of the book may be recommended as an appropriate introduction for anyone who wants to familiarize himself with the solar-wind phenomenon.

The next two papers treat the observations (Ness) and the theory (Dungey) of the earth's magnetosphere under quiet solar conditions. There is some overlap with the subjects treated by Lüst and by Ness, but this hardly detracts from the book.

One of the longest chapters (by Obayashi, 60 pages) is devoted to the magnetosphere and its response to increased solar activity. Parts of what is discussed in the first section of the article have already been treated by Lüst in his chapter. The other two sections, on disturbances in the earth's upper atmosphere and on disturbances in the magnetosphere, give a comprehensive description of the phenomena. They also furnish a discussion of origins of the disturbances, including treatments of particle precipitation and of ionospheric current systems.

The very worthwhile task of trying to arrive at "an understanding and a coherent summary" of the interrelations of all the observed charged par-

ticles in the magnetosphere has been well coped with (by O'Brien) in the next chapter of the book. The characteristics of auroral radiations, Van Allen belts, the magnetosheath, and the solar wind are here related. The following long chapter (by Troitskaya, 60 pages) treats micropulsations of the earth's magnetic field, and shows how investigations of this subject can also give information about the phenomena caused by the interaction of the solar wind with the magnetosphere. In a short, well-conceived article Krassovsky discusses auroras. He distinguishes between ordinary auroras, caused by the injection of low-energy particles, and red auroras, associated with intense heating of the atmosphere by hydromagnetic waves.

The final chapters consist of an article (by Evans) on ground-based measurements and one (by Gringau) on rocket and satellite measurements of the temperature of the particles in the ionosphere and in other parts of the atmosphere. It is of interest to have the two methods juxtaposed, and it shows to some extent the inherent strengths and weaknesses of both.

A book written by a number of authors will necessarily omit aspects that other scientists in the field would like to see included. Similarly, some repetition and overlap can hardly be avoided. The present book suffers from both of these drawbacks, but—in the reviewer's judgment—not to such a degree that its value is significantly diminished. It can be recommended to all who want to delve into this fascinating inter-field that has so often been ignored—particularly by astronomers.

EINAR TANDBERG-HANSEN

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Boulder, Colorado*

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Ancient Medicine. Selected Papers of Ludwig Edelstein. Owsei Temkin and C. Lilian Temkin, Eds. Translated from the German by C. Lilian Temkin. Johns Hopkins Press, Baltimore, 1967. xiv + 496 pp. \$12.50.

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(Continued on page 124)

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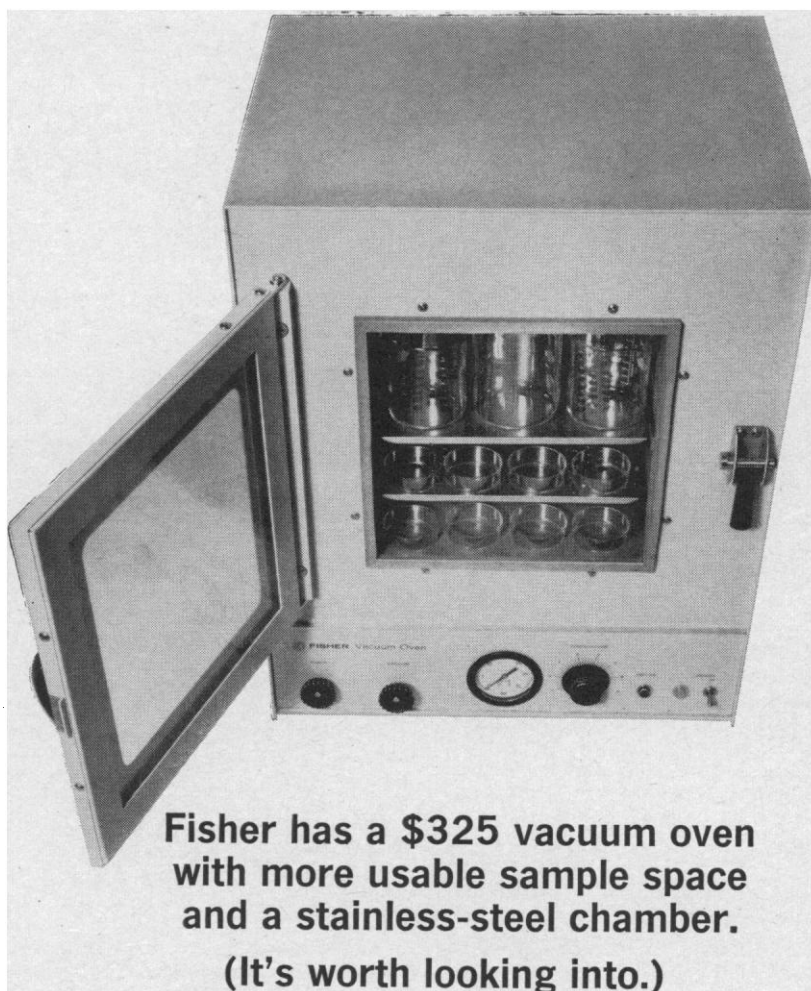
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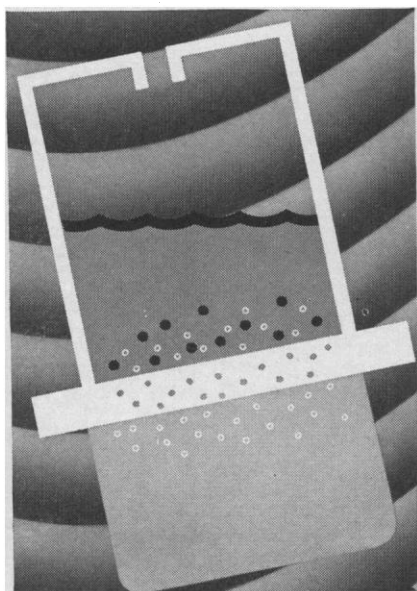
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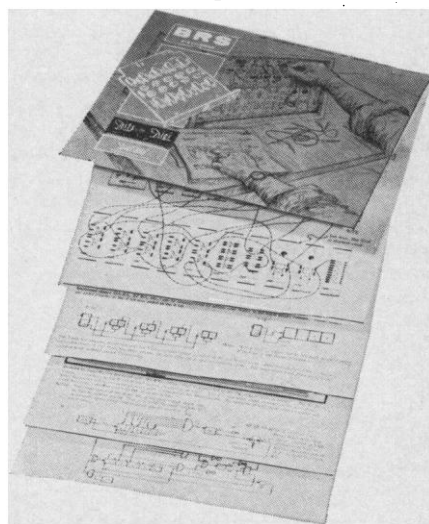
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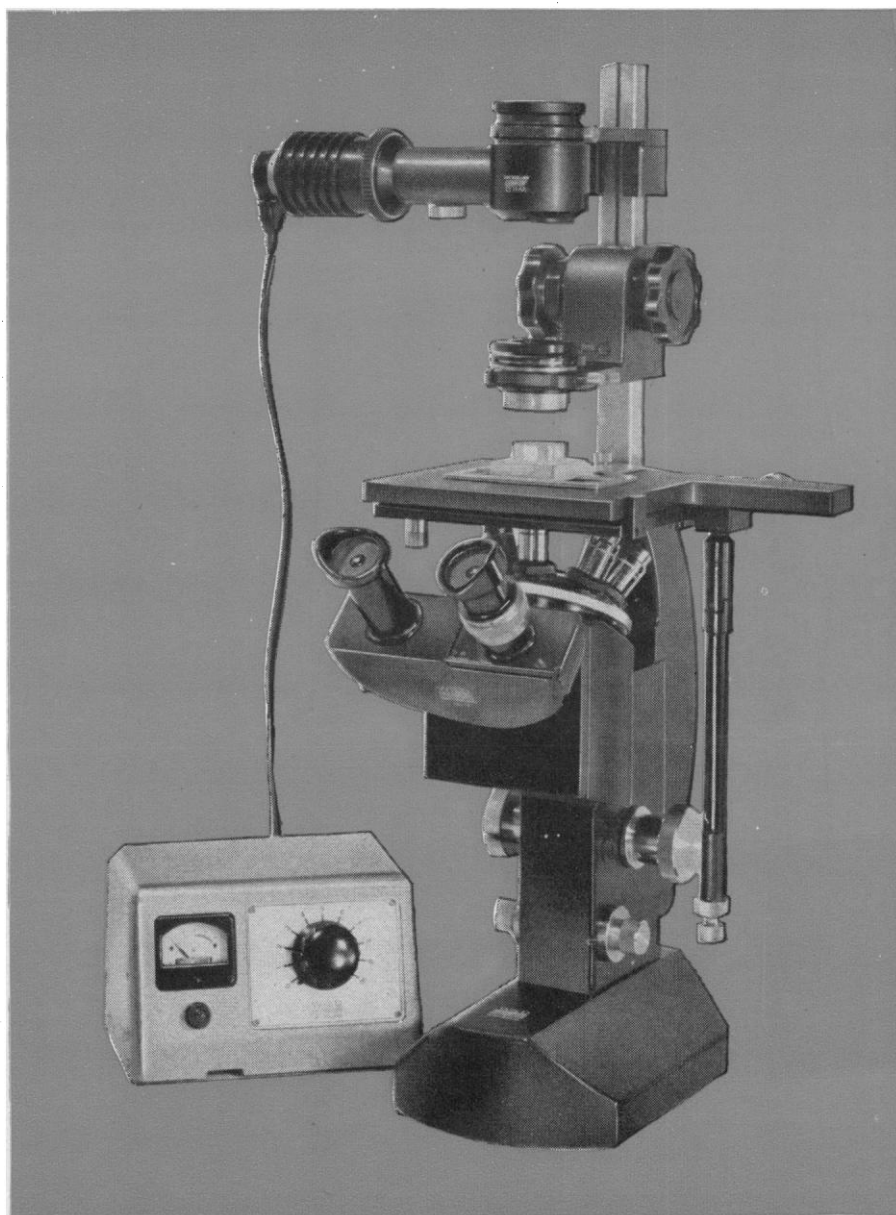
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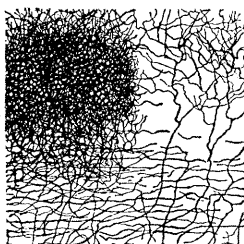
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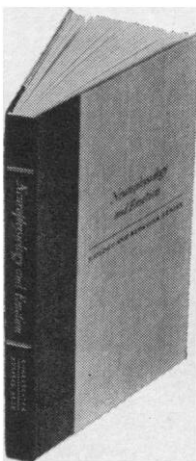
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