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Book Reviews

J. G. Roederer, Ed. Vol. 5; A. J. Hundhausen: *Physics and Chemistry in Space. Coronal Expansion and Solar Wind.* 101 figs. XII,238 pages.
Berlin–Heidelberg–New York: Springer 1972. ISBN 3-540-05875-3; DM 68,—.

The book on coronal expansion and solar wind is written by one of the most active and most successful researchers in the field of solar wind physics. It is therefore not surprising that the auther has written a book which represents an up-to-date, well written account on the state of the subject. The author has contributed himself to all the topics treated in the seven chapters of the book: It starts with the history and a phenomenological review of solar wind physics. Subsequently the "quiet" solar wind is treated as well as its chemical composition. It then treats the disturbed solar wind i.e. deviations from a quiet, homogeneous solar wind including the role of high-speed plasma streams and interplanetary shock waves. The discussion of these subjects is complete enough to give the reader an impression of the great progress made in the last decade. It also makes clear where open questions await their solution in future theoretical and observational research. The neglect of the plasma kinetic aspects of solar wind physics and the fast variations produced e.g. by discontinuities is not disturbing since the dividing line can be drawn very clearly. In conclusion, the book constitutes an excellent summary of the physics of the solar wind useful to the newcomer as well as to the researcher in this interesting field of geoastrophysical research.

F. M. Neubauer, Braunschweig