



# Coronal expansion and solar wind (Physics and chemistry in space)

*A. J Hundhausen*

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Little more than ten years have passed since spaceprobe-borne instruments conclusively demonstrated the existence of the solar wind. These observations confirmed the basic validity of a theoretical model, first proposed by E. N. Parker, predicting a continuous, rapid expansion of the solar corona. The subsequent decade has seen a tremendous growth in both the breadth and sophistication of solar wind observations; the properties of the interplanetary plasma near the orbit of the earth are now known in great detail. The theory of the coronal expansion has also been highly refined both in the sense of including additional physical processes, and of treating more realistic (time-dependent and non spherically-symmetric) coronal boundary conditions. The present volume is an attempt to synthesize the solar wind observations and coronal expansion models from this decade of rapid development. The ultimate goal is, of course, the interpretation of observed solar wind phenomena as the effects of basic physical processes occurring in the coronal and interplanetary plasma and as the natural manifestations of solar properties and structures. This approach implies an emphasis upon the "large-scale" features revealed by the observations. It requires extensive use of the concepts and methods of fluid mechanics.

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