BOOK REVIEWS


Important meeting-places for scientists interested in late-type stars, and in particular the connection between solar and stellar astrophysics, are the conferences in the series of Cambridge Workshops on Cool Stars, Stellar Systems, and the Sun. The latest was held in Boulder, Colorado in July 1987, and it was a very successful one as judged from the proceedings. The editors have also made a great effort to increase its quality by careful proofreading, omitting contributions with already published results, and compiling author and subject indices. The result is a very good review of current status, problems and controversies regarding stellar outer atmospheres, their origin and evolution.

The book contains 26 mostly very good and well-written reviews covering the following subjects: stellar magnetic fields, nonthermal phenomena in stellar coronae, heating of stellar chromospheres and coronae, the angular momentum history of stars, stars with thin and thick convection zones, a re-examination of the corona/wind dividing line, exploiting the infrared, activity in pre-Main Sequence stars; in addition there are 68 shorter contributions of more specialized scientific nature. An important element in future research is illustrated in contributions and discussion on monitoring programs. Also important for future progress are infrared instrumentation, new techniques like Doppler imaging, careful measurements of rotation and magnetic fields and, of course, continued use of space observations. The book also conveys the fundamental importance of the interaction between the outer atmospheres and both the stellar interior and the circumstellar environment. Intended for use by scientists working in the field, it is also a very good up-to-date introduction for scientists wanting to join this important field of research, especially graduate students. It can be highly recommended.

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