



The Observation and Analysis of Stellar Photospheres

By David F. Gray

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Revising topics and results to include the latest research, this updated third edition describes the equipment, observational techniques, and analysis used to investigate stellar photospheres. Topics covered include radiation transfer, models of stellar photospheres, spectroscopic equipment, observing stellar spectra, and techniques for measuring stellar characteristics. The comprehensive textbook is ideal for advanced students of stellar physics. Each chapter contains exercises, and useful real star data and primary references can be found throughout.

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Review

"...this new edition sustains the strengths of its predecessors while introducing new material, including (for the first time) exercises that enhance its usefulness as source material for lecture courses...all the expected standard topics are well covered, with a clarity that readily betrays the author's deep familiarity with, and understanding of, both the central physics and the empirical practice. Any atypical content and emphasis also reflects this first-hand command of the material, and sets the book apart from (and above) a number of others that attempt to cover broadly similar ground...accessible at undergraduate level, and with enough depth (and referencing to primary sources) to make it useful for the research scientist. Recommended to all with interests in these areas." - The Observatory, Ian D. Howarth

About the Author

David F. Gray is Director of the Elginfield Observatory and Professor of Astronomy at the University of Western Ontario, London, Canada.

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