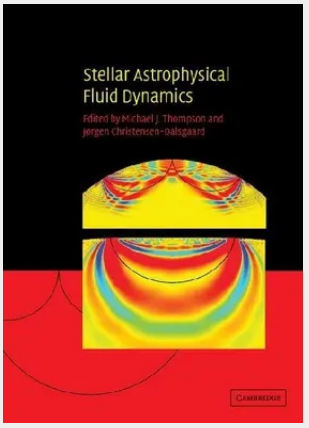
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Stellar Astrophysical Fluid Dynamics

In all phases of the life of a star, hydrodynamical processes play a major role. This volume gives a comprehensive overview of the state of knowledge in stellar astrophysical fluid dynamics, and its publication marked the 60th birthday of Douglas Gough, Professor of Theoretical Physics at the University of Cambridge and leading contributor to stellar astrophysical fluid dynamics. Topics include properties of pulsating stars, helioseismology, convection and mixing in stellar interiors, dynamics of stellar rotation, planet formation and the generation of stellar and planetary magnetic fields. Each chapter is written by leading experts in the field, and the book provides an overview that is central to any attempt to understand the properties of stars and their evolution. With extensive references to the technical literature, this is a valuable text for researchers and graduate students in stellar astrophysics.

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