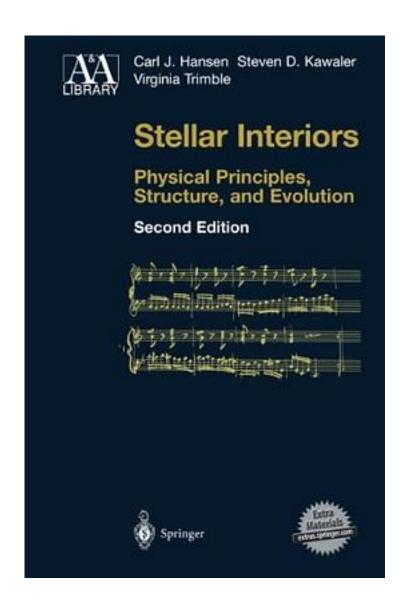
Stellar Interiors



Stellar Interiors_下载链接1_

著者:Hansen, Carl J./ Kawaler, Steven D./ Trimble, Virginia

出版者:Springer Verlag

出版时间:2004-2

装帧:HRD

isbn:9780387200897

This text, designed for beginning students of stellar physics, introduces the fundamentals of stellar structure and evolution. In emphasizing the general picture of the life cycles of stars and the physics responsible, it also allows prospective specialists a taste of many of the detailed aspects of this mature discipline. The authors develop a solid foundation in important theory that is often overlooked in typical courses, yet steer clear of extraneous intensive mathematics and physics. Topics include nuclear physics and stellar energy sources, the equation of state of stellar material, phénomenological approaches to convection, and modern numerical techniques for computation of stellar evolution. Keeping pace with recent developments, the authors incorporate important elements such as asteroseismology, and the effects of rotation and magnetic fields. The text contains the source code for two useful programs, ZAMS (for constructing chemically homogeneous zero-age main sequence models) and PULS (to study the seismological properties of the ZAMS models). Some chapters include exercises. The new edition will be updated throughout to incorporate new observational and theoretical insights, and the programs will be updated to modern standards.

作者介绍:

目录: 1.Preliminaries 1

2.An Overview of Stellar Evolution 43

3. Equations of State 1454. Radiative and Conductive Heat Transfer 193

5.Heat Transfer by Convection 241

6.Stellar Energy Sources 271 7.Stellar Modelling 329

8. Asteroseismology 379

9.Structure and Evolution of the Sun 431

10. Structure and Evolution of White Dwarfs 467

A Mini Stellar Glossary 497

B Table of Symbols and Physical Constants 503 C List of Journal Abbreviations 513

Index 515

• • • • • (收起)

Stellar Interiors 下载链接1

标签

恒星物理

天体物理

评论

恒星物理专业课推荐参考书!

Stellar Interiors_下载链接1_

书评

Stellar Interiors_下载链接1_