



An Introduction to Stellar Astrophysics

Francis LeBlanc

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An Introduction to Stellar Astrophysics aspires to provide the reader with an intermediate knowledge on stars whilst focusing mostly on the explanation of the functioning of stars by using basic physical concepts and observational results.

The book is divided into seven chapters, featuring both core and optional content:

- Basic concepts
- Stellar Formation
- Radiative Transfer in Stars
- Stellar Atmospheres
- Stellar Interiors
- Nucleosynthesis and Stellar Evolution and
- Chemically Peculiar Stars and Diffusion.

Student-friendly features include:

- Detailed examples to help the reader better grasp the most important concepts
- A list of exercises is given at the end of each chapter and answers to a selection of these are presented.
- Brief recalls of the most important physical concepts needed to properly understand stars.
- A summary for each chapter
- Optional and advanced sections are included which may be skipped without interfering with the flow of the core content.

This book is designed to cover the most important aspects of stellar astrophysics inside a one semester (or half-year) course and as such is relevant for advanced undergraduate students following a first course on stellar astrophysics, in physics or astronomy programs. It will also serve as a basic reference for a full-year course as well as for researchers working in related fields.

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