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Descrizione fisica	1 online resource (VIII, 392 p. 23 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 373
Disciplina	520
Soggetti	Observations, Astronomical Astronomy—Observations Astrophysics Physics Astronomy, Observations and Techniques Astrophysics and Astroparticles Mathematical Methods in Physics Numerical and Computational Physics, Simulation
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Stellar structure and stellar evolution -- Supernovae: Observations, theory, models and nucleosynthesis -- Circumstellar envelopes of late type stars -- Evolution of close binary systems: Application to X-ray binaries -- An introduction to computational methods in hydrodynamics -- Basic hydrodynamics -- Convection and turbulence in stars.
Sommario/riassunto	This collection of 7 lectures is intended to be a textbook for graduate students who want to learn about modern developments in astronomy and astrophysics. The first part surveys various aspects of the late stages of stellar evolution, including observation and theory. B.C. de Loore's long article on stellar structure is followed by reviews on supernovae, on circumstellar envelopes, and on the evolution of

binaries. The second part deals with the important problem of modeling stellar evolution based on the computational hydrodynamics.

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