



3rd ed. 2012, XV, 719 p. 128 illus., 71 illus. in color.

Printed book

Hardcover

74,99 € | £65.99 | \$89.99

^[1]80,24 € (D) | 82,49 € (A) | CHF

88,50

Softcover

64,99 € | £56.99 | \$79.99

^[1]69,54 € (D) | 71,49 € (A) | CHF

77,00

eBook

53,49 € | £44.99 | \$59.99

^[2]53,49 € (D) | 53,49 € (A) | CHF

61,50

Available from your library or
springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

P. Léna, D. Rouan, F. Lebrun, F. Mignard, D. Pelat

Observational Astrophysics

Series: Astronomy and Astrophysics Library

- Enlarged and revised 3rd edition of a successful adopted textbook
- With a clear part and chapter structure for easier access for students
- Covers observational astrophysics over the entire electromagnetic spectrum
- Touches upon new and future windows of astronomy: neutrinos and gravitational waves
- Offers basics of signal processing, beneficial use of astronomical databases and virtual observatories

This is the updated, widely revised, restructured and expanded third edition of Léna et al.'s successful work *Observational Astrophysics*. It presents a synthesis on tools and methods of observational astrophysics of the early 21st century. Written specifically for astrophysicists and graduate students, this textbook focuses on fundamental and sometimes practical limitations on the ultimate performance that an astronomical system may reach, rather than presenting particular systems in detail. In little more than a decade there has been extraordinary progress in imaging and detection technologies, in the fields of adaptive optics, optical interferometry, in the sub-millimetre waveband, observation of neutrinos, discovery of exoplanets, to name but a few examples. The work deals with ground-based and space-based astronomy and their respective fields. And it also presents the ambitious concepts behind space missions aimed for the next decades. Avoiding particulars, it covers the whole of the electromagnetic spectrum, and provides an introduction to the new forms of astronomy becoming possible with gravitational waves and neutrinos. It also treats numerical aspects of observational astrophysics: signal processing, astronomical databases and virtual observatories.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

