

1st ed. 2020, 240 p. 80 illus., 10 illus. in color.

Printed book

Hardcover

Ca. 69,95 € | Ca. £62.99 | Ca. \$99.00

^[1]Ca. 74,85 € (D) | Ca. 76,95 € (A) |

Ca. CHF 100,60

eBook

Available from your library or

springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Volker Bromm

The First Stars

Series: Astronomy and Astrophysics Library

- Devoted to one of the great outstanding challenges in modern cosmology and astrophysics
- Extremely timely topic in view of the forthcoming launch of the James Webb Space Telescope
- First advanced level text book on the field of first stars

This book is based in part on classroom tested lectures related to the first stars (Pop III stars), but also draws from the author's review articles of the main physical principles involved. The book will thus combine pedagogical introductory chapters with more advanced ones to survey the cutting-edge advances from the frontier of research. The formation of Pop III stars and galaxies is one of the great outstanding challenges in modern astrophysics and cosmology. The first stars are likely key drivers for early cosmic evolution and will be at the center of attention over the next decade. The best available space and ground-based telescopes like the Hubble Space Telescope probe the Universe to high redshifts and provide us with tantalizing hints; but they cannot yet directly detect the first generation of stars and the formation of the first galaxies. This is left as key science for future telescopes like the James Webb Space Telescope. The book covers the theory of first star formation, the relation between first stars and dark matter, their impact on cosmology, their observational signatures, the transition to normal star formation as well as the assembly of the first galaxies. It will prepare advanced students and researchers entering the field for interpreting observational findings and their cosmological implications.

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.

