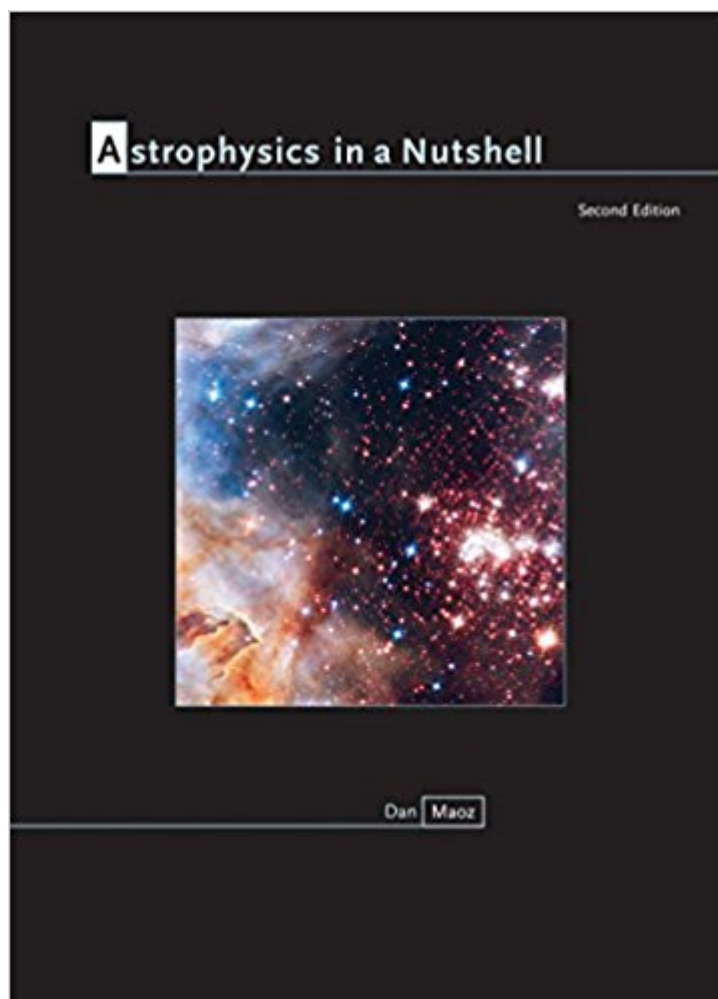


The book was found

# Astrophysics In A Nutshell



## Synopsis

Winner of the American Astronomical Society's Chambliss Award, *Astrophysics in a Nutshell* has become the text of choice in astrophysics courses for science majors at top universities in North America and beyond. In this expanded and fully updated second edition, the book gets even better, with a new chapter on extrasolar planets; a greatly expanded chapter on the interstellar medium; fully updated facts and figures on all subjects, from the observed properties of white dwarfs to the latest results from precision cosmology; and additional instructive problem sets. Throughout, the text features the same focused, concise style and emphasis on physics intuition that have made the book a favorite of students and teachers. Written by Dan Maoz, a leading active researcher, and designed for advanced undergraduate science majors, *Astrophysics in a Nutshell* is a brief but thorough introduction to the observational data and theoretical concepts underlying modern astronomy. Generously illustrated, it covers the essentials of modern astrophysics, emphasizing the common physical principles that govern astronomical phenomena, and the interplay between theory and observation, while also introducing subjects at the forefront of modern research, including black holes, dark matter, dark energy, and gravitational lensing. In addition to serving as a course textbook, *Astrophysics in a Nutshell* is an ideal review for a qualifying exam and a handy reference for teachers and researchers. The most concise and current astrophysics textbook for science majors is now expanded and fully updated with the latest research results. Contains a broad and well-balanced selection of traditional and current topics. Uses simple, short, and clear derivations of physical results. Trains students in the essential skills of order-of-magnitude analysis. Features a new chapter on extrasolar planets, including discovery techniques. Includes new and expanded sections and problems on the physics of shocks, supernova remnants, cosmic-ray acceleration, white dwarf properties, baryon acoustic oscillations, and more. Contains instructive problem sets at the end of each chapter. Solutions manual (available only to professors).

## Book Information

File Size: 14449 KB

Print Length: 312 pages

Publisher: Princeton University Press; 2 edition (February 23, 2016)

Publication Date: February 23, 2016

Sold by: Digital Services LLC

Language: English

ASIN: B016VETUC2

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #573,882 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #269

in Kindle Store > Kindle eBooks > Nonfiction > Science > Reference #340 in Kindle Store >

Kindle eBooks > Nonfiction > Science > Astronomy & Space Science > Astrophysics & Space

Science #440 in Books > Science & Math > Reference

[Download to continue reading...](#)

Particles and Astrophysics: A Multi-Messenger Approach (Astronomy and Astrophysics Library)

Astrophysics in a Nutshell The Physics of Astrophysics Volume I: Radiation Taking the Back off the

Watch: A Personal Memoir (Astrophysics and Space Science Library) Astrophysics: A Very Short

Introduction (Very Short Introductions) Planetary Systems: Detection, Formation and Habitability of

Extrasolar Planets (Astronomy and Astrophysics Library) Stellar Structure and Evolution (Astronomy

and Astrophysics Library) Python in a Nutshell, Second Edition (In a Nutshell) UNIX in a Nutshell:

System V Edition: A Desktop Quick Reference for System V Release 4 and Solaris 2.0 (In a

Nutshell (O'Reilly)) UML 2.0 in a Nutshell (In a Nutshell (O'Reilly)) VBScript in a Nutshell (In a

Nutshell (O'Reilly)) Government Contracts in a Nutshell (Nutshell Series) Regulated Industries in a

Nutshell (Nutshell Series) Government Contracts In A Nutshell (In a Nutshell (West Publishing))

Accounting and Finance for Lawyers in a Nutshell, 4th Edition (In a Nutshell (West Publishing)) The

Law of Corporations in a Nutshell, 6th (Nutshell Series) Employment Law in a Nutshell, Third Edition

(West Nutshell) Oil and Gas Law in a Nutshell, (Nutshell Series) 5th (fifth) edition Criminal Law in a

Nutshell (Nutshell Series) Children and the Law: In a Nutshell (Nutshell Series)

[Dmca](#)