

CHARACTERISTICS OF STARS

Like the Sun, all **stars** are huge spheres of glowing gas. They are made up mostly of hydrogen and some helium, and they produce their energy by nuclear fusion. **Nuclear fusion** is the process where two atoms of hydrogen fuse together to form an atom of helium. This process releases a tremendous amount of energy and makes stars shine brightly. Astronomers classify stars according to their physical characteristics. These include:

1. Color
2. Temperature
3. Size
4. Brightness

A. Color and Temperature

If you look up in the night sky, you can see slight differences in the colors of stars. Like hot objects on Earth, a star's color reveals its surface temperature. If you watch a toaster heat up, the wires inside glow red hot. The wires inside a light bulb are even hotter and glow white. Stars are the same. The coolest stars, with a surface temperature of about $3,000^{\circ}\text{C}$ appear reddish. The hottest stars, with surface temperatures over $20,000^{\circ}\text{C}$ appear bluish-white.

B. Size

The stars in the sky all appear to be points of light of the same size. Many stars are actually the same size of the Sun, which is a medium-sized star. However, some stars are much larger and are called **giant** and **supergiant** stars. Most stars are much smaller than the Sun. Black and white **dwarf stars** are about the size of Earth. **Neutron stars** are even smaller, only about 20 km in diameter.



C. Brightness

The brightness of a star depends on both its size and its temperature. How bright a star looks from Earth depends on both its distance and how bright the star actually is. The brightness of a star can be described in 2 different ways: apparent brightness and absolute brightness. A star's **apparent brightness** is its brightness as seen from Earth. Astronomers can measure apparent brightness easily, using devices similar to those used by photographers. However, apparent brightness does not take into account how far away a star is from Earth. A star's **absolute brightness** is the brightness the star would have if all stars were the same standard distance from Earth. This allows astronomers to compare the brightness of all stars.



Distances on Earth are often measured using kilometres and miles. However, distances between stars are so large that kilometres are not very practical units. Astronomers use a unit called the **light-year** to measure the distance between stars. A light year is the distance that light travels in one year, which is roughly 9.5 million million kilometres.

Novel Stars Answers For Physical Science

Joacim Rocklöv

Novel Stars Answers For Physical Science:

Physical Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite Wenrui Hu,Qi Kang,2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission s execution data collection and scientific outcomes *A Directory of Information Resources in the United States: Physical Sciences*, Engineering National Referral Center (U.S.),1971

Life Science in Space: Experiments on Board the SJ-10 Recoverable Satellite Enkui Duan,Mian Long,2019-09-11 This book presents the life science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 It covers 10 scientific projects in radiation biology gravitational biology and biotechnology that were selected from 100 proposals from various institutions in China and around the world Primarily exploring the rhythm of life in a space microgravity environment all of the experiments conducted on nine payloads of the SJ 10 satellite have never been previously conducted in the respective fields In addition the book provides extensive information on the mission s execution data collection and scientific outcomes *Scientific and Technical Aerospace Reports* ,1980 *Chemical news and Journal of physical science* ,1898 *The Chemical News and Journal of Physical Science* ,1899

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A Text Book of the Principles of Physics Alfred Daniell,1894 *English Mechanic and World of Science* ,1884 *New Technical Books* New York Public Library,1991 *Popular Astronomy* ,1895 *The Speaker* ,1891 *Chemical News and Journal of Physical Science* ,1914 *Knowledge* ,1895 *Nature* Sir Norman Lockyer,1888 *Catalogue of the Brooklyn Library* Brooklyn Public Library,1877 *English Mechanic and Mirror of Science and Art* ,1884

Novel Stars Answers For Physical Science: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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