

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

2. Size

3. 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°C appear reddish. The hottest stars, with surface temperatures over 20,000°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

Jennifer E. Porter, Darcee L. McLaren



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Drawing on a number of methodologies and disciplinary perspectives this book boldly goes where none has gone before by focusing on the interplay between Star Trek religion and American culture as revealed in the four different Trek television series and the major motion pictures as well Explored from a Trek perspective are the portrayal and treatment of religion the religious and mythic elements the ritual aspects of the fan following and the relationship between religion and other issues of contemporary concern Divided into three sections this detailed study of religion myth and ritual in the Star Trek context extends the boundaries of the traditional categories of religious studies and explores the process of the re creation of culture The first section explores the ways in which religion has primarily been understood in the Star Trek franchise in relationship to science technology scientism and secular humanism What do Star Trek and its creator Gene Roddenberry have to say about religion and what does this reveal about changing American perceptions about the role value and place of religion in everyday life Section Two examines the mythic power and appeal of Star Trek and highlights the mythic and symbolic parallels between the series story lines and themes taken from both western religious tradition and the scientific and technological components of contemporary North American Society In the final section contributors discuss the mythic and ritual aspects of Star Trek fandom How have Star Trek fans found meaning and value in the television programs and how do they express that meaning in their lives Contributors include Robert Asa Michael Jindra Larry Kreitzer Jeffrey S Lamp Peter Linford Ian Maher Anne Pearson Gregory Peterson and Jon Wagner

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