

Ans: The wavelength of the light emitted by the star is given as:

$$\lambda_o = 7000 \text{ \AA} = 7000 \times 10^{-10} \text{ m.}$$

The star is the source of the light and is moving away from the Earth; the velocity of the source is given as:

$$v_s = 10 \text{ km/s} = 10^4 \text{ m/s.}$$

Since the source is moving away from the observer which is the Earth and the Earth is stationary with respect to the star, the apparent wavelength of the light can be calculated as:

$$\frac{1}{\lambda} = \frac{1/\lambda_o}{1 - v_s/v}$$

The speed of light in a vacuum is known to be:

$$v = 3 \times 10^8 \text{ m/s.}$$

# Doppler Effect Problems And Solutions

**David Locke Webster, Hermon Waldo  
Farwell, Elmer Reginald Drew**



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Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit [www.physicsfactor.com](http://www.physicsfactor.com) or WhatsApp to our customer care number 91 7618717227

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