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define the electromagnetic spectrum and describe it in terms of frequencies and wavelengths describe and explain the differences and similarities of each section of the electromagnetic spectrum and the applications of radiation from those sections chapter 5 radiation and spectra 5 2 the electromagnetic spectrum learning objectives by the end of this section you will be able to understand the bands of the electromagnetic spectrum and how they differ from one another understand how each part of the spectrum interacts with earth s atmosphere the electromagnetic spectrum consists of gamma rays x rays ultraviolet radiation visible light infrared and radio radiation many of these wavelengths cannot penetrate the layers of earth s atmosphere and must be observed from space whereas others such as visible light fm radio and tv can penetrate to earth s surface the electromagnetic spectrum is separated into many categories and subcategories based on the frequency and wavelength source and uses of the electromagnetic waves the microwave and infrared regions of the electromagnetic spectrum overlap see figure 24 9 infrared radiation is generally produced by thermal motion and the vibration and rotation of atoms and molecules electronic transitions in atoms and molecules can also produce infrared radiation draw a simplified electromagnetic spectrum indicating the relative positions frequencies and spacing of the different types of radiation bands list and explain the different methods by which electromagnetic waves are produced across the spectrum understand how astronomers can learn about a star s radius and composition by studying its spectrum explain how astronomers can measure the motion and rotation of a star using the doppler effect describe the proper motion of a star and how it relates to a star s space velocity chapter 24 electromagnetic waves 24 3 the electromagnetic spectrum summary list three rules of thumb that apply to the different frequencies along the electromagnetic spectrum explain why the higher the frequency the shorter the wavelength of an electromagnetic wave 5 1 the behavior of light learning objectives by the end of this section you will be able to explain the evidence for maxwell s electromagnetic model of light describe the relationship between wavelength frequency and speed of light discuss the particle model of light and the definition of photon the frequency spectrum of the impulse an infinitely sharp impulse has a uniform frequency spectrum out to infinite frequency this accelerating impulse has a duration τ b v 0 and consequently has an approximately uniform spectrum only out to an angular frequency ω 1 τ chapter 13 infrared spectroscopy i background nearly every portion of the electromagnetic spectrum has been used to elucidate the structures of atoms and molecules the electromagnetic spectrum a variety of techniques are available including ultraviolet visible uv vis infrared ir and nuclear magnetic resonance nmr spectroscopy chapter 5 section 5 6 the doppler effect survey of astronomy 5 6 the doppler effect learning objectives by the end of this section you will be able to explain why the spectral lines of photons we observe from an object will change as a result of the object s motion toward or away from us electromagnetic waves 16 5 the electromagnetic spectrum learning objectives by the end of this section you will be able to explain how electromagnetic waves are divided into different ranges depending on wavelength and corresponding frequency describe how electromagnetic waves in different categories are produced sign in to your spectrum account for the easiest way to view and pay your bill watch tv manage your account and more 5 5 formation of spectral lines learning objectives by the end of this section you will be able to explain how emission line spectra and absorption line spectra are formed describe what ions are and how they are formed explain how spectral lines and ionization levels in a gas can help us determine its temperature figure 1 the electromagnetic spectrum showing the major categories of electromagnetic waves the range of frequencies and wavelengths is remarkable the dividing line between some categories is distinct whereas other categories overlap electromagnetic spectrum rules of thumb 40 the electromagnetic spectrum learning objectives by the end of this section you will be able to understand the bands of the electromagnetic spectrum and how they differ from one another understand how each part of the spectrum interacts with earth s atmosphere explain how and why the light emitted by an object depends on its temperature holt science spectrum 30 motion assessment study guide quiz chapter 11 section motion and force in the space provided write the letter of the term or phrase that best completes each statement or best answers each question 1 net force is a the force acting in the same direction as an object s movement unit 1001 10 f mira place 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the electromagnetic spectrum consists of gamma rays x rays ultraviolet radiation visible light infrared and radio radiation many of these wavelengths cannot penetrate the layers of earth s atmosphere and must be observed from space whereas others such as visible light fm radio and tv can penetrate to earth s surface

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the electromagnetic spectrum is separated into many categories and subcategories based on the frequency and wavelength source and uses of the electromagnetic waves

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the microwave and infrared regions of the electromagnetic spectrum overlap see figure 24 9 infrared radiation is generally produced by thermal motion and the vibration and rotation of atoms and molecules electronic transitions in atoms and molecules can also produce infrared radiation

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draw a simplified electromagnetic spectrum indicating the relative positions frequencies and spacing of the different types of radiation bands list and explain the different methods by which electromagnetic waves are produced across the spectrum

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understand how astronomers can learn about a star s radius and composition by studying its spectrum explain how astronomers can measure the motion and rotation of a star using the doppler effect describe the proper motion of a star and how it relates to a star s space velocity

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chapter 24 electromagnetic waves 24 3 the electromagnetic spectrum summary list three rules of thumb that apply to the different frequencies along the electromagnetic spectrum explain why the higher the frequency the shorter the wavelength of an electromagnetic wave

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5 1 the behavior of light learning objectives by the end of this section you will be able to explain the evidence for maxwell s electromagnetic model of light describe the relationship between wavelength frequency and speed of light discuss the particle model of light and the definition of photon

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the frequency spectrum of the impulse an infinitely sharp impulse has a uniform frequency spectrum out to infinite frequency this accelerating impulse has a duration τ b v 0 and consequently has an approximately uniform spectrum only out to an angular frequency ω 1 τ

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5 5 formation of spectral lines learning objectives by the end of this section you will be able to explain how emission line spectra and absorption line spectra are formed describe what ions are and how they are formed explain how spectral lines and ionization levels in a gas can help us determine its temperature

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