

PHY 213

Lab 8: Ray Optics 1 Reflection and Refraction

No uncertainty measurements for this lab.

Introduction

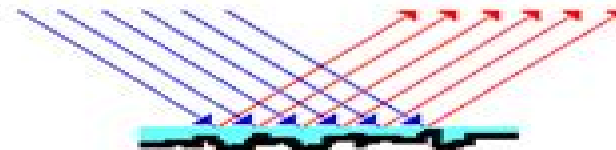
Over the last fifty years the laser has become a central tool in experimental physics because light can be controlled in a variety of ways to measure distance, time, density, atomic composition, atomic structure, temperature, etc...

Today we will be focused on what happens when light goes from one material to another material. If we believe that light is just a particle, then in general there are a few basic possibilities:

- 1) If the light stays outside the material by bouncing off the surface, we call this **reflection**. There are two basic types of reflection, **specular** and **diffuse reflection**, which depend on how smooth the material's surface is.



**A dry asphalt roadway
diffuses incident light.**



**When wet, water fills in the
crevices, resulting in specular
reflection and a glare.**

- 2) If the light ray enters the material, it can be **absorbed**- changing from light into heat or some other form of energy, or it can be **refracted**- entering the material while remaining light but usually changing direction at the surface of the material.

Now of course the light can do any combination of these things and frequently does all of them at the same time (i.e. 5% of the light is absorbed, 45% is refracted, 5% is reflected diffusely, and 45% is reflected specularly).

Refraction Section Review Manual Resolution

Tobias Bleicker



Refraction Section Review Manual Resolution:

The Top Books of the Year Refraction Section Review Manual Resolution The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Refraction Section Review Manual Resolution : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Refraction Section Review Manual Resolution : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Refraction Section Review Manual Resolution : Delia Owens' "Where the Crawdads Sing" This mesmerizing 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 popular 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 exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/files/book-search/index.jsp/Ps%20Vita%20Tv%20Australia%20Release%20Date.pdf>

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