

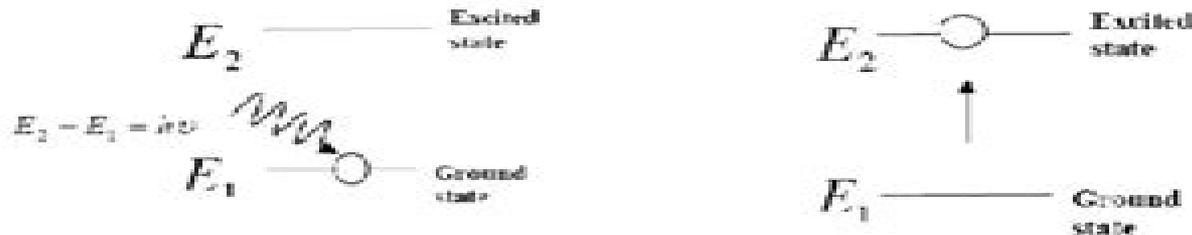
Lasers- Engineering Physics

➤ Laser

Light Amplification by Stimulated Emission of Radiation (LASER) is a term that refers to how light is amplified when it is stimulated. Albert Einstein supplied the theoretical platform for the creation of the laser in 1917. T.H. Mainmann invented the first laser apparatus in 1960.

➤ Stimulated absorption

Let E_1 and E_2 be the energies of an atom's ground and excited states, respectively. If a photon with the energy $E_2 - E_1 = h\nu$ combines with an atom in the ground state, the atom will be stimulated from the ground state E_1 to the excited state E_2 . This is known as stimulated absorption.



The number of atoms present in the lowest energy level, and also the energy density photons, determine the rate of stimulated absorption. Quantity of atoms in the ground state at the stimulated absorption level Photon density is a measure of how many photons are present in a given area.

➤ Spontaneous emission

Bohr proposed the idea of spontaneous emission. Let E_1 and E_2 be the energies of an atom's ground and excited states, respectively. If a photon with the energy $E_2 - E_1 = h\nu$ combines with an atom in the ground state, the atom will be excited from the ground state E_1 to the excited state E_2 .

Engineering Physics Laser Notes

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Engineering Physics Laser Notes:

Engineering Physics Laser Notes: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating 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 Hoover "It Ends with Us" This heartfelt 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 succeed. Engineering Physics Laser Notes : Taylor Jenkins Reids "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. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Engineering Physics Laser Notes : 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 spins 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 engaging 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 speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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