

BASIC CONCEPTS OF CIVIL ENGINEERING

Important units & points –

1. 25 KN/Cum is unit weight of concrete.
2. 78.5 KN/Cum is unit weight of steel.
3. 10 KN/Cum is unit weight of water.
4. 1 cement bag is 50 kgs.
5. Standard size of brick is 19cm × 9cm × 9cm.
6. Piles transfer the loads by friction or by end bearing.
7. Slope of stairs shall not exceed 40 degrees.
8. Preferably limit the number of steps to 12 per flight.
9. 1 cum volume has 500 no. of bricks.

Construction materials –

The basic construction materials are

1. Cement – Cement is basically obtained by grinding the stones containing lime & clay. Cement is the binder which helps in the bonding of cement, sand along with water. Some of the very important types of cement are
 - Low heat cement used generally in construction of dams.
 - Sulphate resisting cement used in corrosive type environment. E.g., Sewage contact surfaces.
 - Rapid hardening cement, &
 - Quick setting cement.
2. Aggregate – Fine aggregate & coarse aggregate are generally two types of aggregates. Fine aggregate is the one that passes through 4.75mm sieve & retained on 0.075mm sieve. E.g., Sand etc. Coarse aggregate is the one that retains on 4.75mm IS sieve. E.g., Gravel etc.

Civil Engineering Principles And Practices

American Society of Civil Engineers



Civil Engineering Principles And Practices:

The Top Books of the Year Civil Engineering Principles And Practices The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Civil Engineering Principles And Practices : 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 compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Civil Engineering Principles And Practices : 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 weaves 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 captivating 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 an exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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