

MECHANICS OF MATERIALS & STRUCTURES

Structures:

Structures are systems of interconnected components designed to withstand external loads and forces. These structures can be classified into various types based on their shape, composition, and behavior under loading. Here are a few examples of structures and their characteristics:

- **Beams:** A beam is a structural member resting on supports to carry vertical loads. They are designed to resist bending and shear stresses. Examples of beams include bridge girders, roof beams, and floor joists.
- **Columns:** Columns are vertical structural members that primarily resist compressive loads. They are designed to withstand buckling under high compressive forces. Examples of columns include pillars, posts, and support columns for buildings.
- **Trusses:** Trusses are composed of interconnected triangles and are used to support roof and bridge structures. They are designed to resist tensile and compressive loads and are commonly used in lightweight structures like airplane wings and space frames.
- **Cables:** Cables are flexible structures that can support tensile loads. They are made up of wires twisted or braided together and can be used for structures like suspension bridges, power lines, and cable-stayed structures.
- **Shells:** Shells are thin, curved structures that can resist external loads by developing compressive and tensile stresses. Examples of shells include pressure vessels, storage tanks, and the domes of buildings.
- **Buildings and bridges etc.**

Stress:

- The internal force of resistance per unit area offered by a body against deformation is called stress.
- It originates only in deformable body.
- Axial stress = ~~Ошибка!~~ = ~~Ошибка!~~
- Shear stress = ~~Ошибка!~~ = ~~Ошибка!~~
- Bending Stress = $\frac{\text{Bending moment}}{\text{section modulus}} = \frac{M}{z}$
- Its unit is same as unit of pressure.
- Unit = N/mm² or Kg/cm² or MPa

Lecture Notes Mechanics Materials I Mechanical

Ying Liu



Lecture Notes Mechanics Materials I Mechanical:

The Top Books of the Year Lecture Notes Mechanics Materials I Mechanical The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling 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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Lecture Notes Mechanics Materials I Mechanical : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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. Discover the Magic : 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 crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling 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 Papan, 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 masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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