

METACENTER

Meaning: Metacenter: a point in naval architecture that indicates the position where a floating body's center of buoyancy shifts as it tilts, crucial for assessing the stability and righting moment of the vessel.

1. The metacenter is a crucial point in naval architecture that helps determine a ship's stability.
2. When a floating body tilts, the metacenter remains fixed, allowing for the evaluation of its righting moment.
3. Engineers calculate the metacenter to ensure that vessels can withstand rough seas without capsizing.
4. Understanding the relationship between the center of gravity and the metacenter is essential for designing safe boats.
5. During the stability test, the position of the metacenter was found to be higher than initially expected, indicating improved performance.

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