

Naval Architecture

1. Experiments to ascertain the resistance opposed to bodies moving in water - Cylinders - Cubes - Cones - Pyramids - Double cone - Truncated cone - Spheroid - Parabolic spindle -
2. Flotation of a body how affected by its shape - Plank carries the same weight in water when on its edge as when lying flat -
3. Will a plank bear the same when placed on end in the water?
4. The figure of a ship is altered when first thrown into the water In a 74 Gun ship the sagitta is 4 inches shorter after she is launched than when on the stocks
5. Best viz, and angle for the rudder

6. In a ship the tendency of the wind on the sails is to make her plunge forward, should not all the masts be placed ^{in this way} more aft. The main-mast is distant from the head, usually, in the proportion of $\frac{1}{2}$ to

7. The pressure of the water it is affirmed by some would prevent the starting of a plank, were it the elasticity of the plank greater than this pressure at certain depths.

8. All the French and English ships are narrowed above by their masts, the vessel ships more sea-rotta more so - Give what good reason can be given for this construction?

9. Mr. Benth's improvement on the rudder

10. Were the present obtuse angle formed by the ship and Main post rounded into a curve would it be an improvement?

11. The analogy between a ship and fish or fowl is not perfect the latter have a power of enlarging and diminishing their feet and rudders.

12. As a ship very seldom moves directly forward, it has been alleged that the principles on which she is constructed are fundamentally wrong -

13. A Duck swimming gives the nearest resemblance of a ship.

14. The best method of proving that the same quantity of water is displaced by the ship in every position

13. Stowage makes a great difference in a ship's run, all in the middle, as to length the pitch, or time along the Mast she rolls

16. Center of gravity of a ship affected by the length of the radius - ~~mass~~

17. In what respect does the rolling of a vessel affect her run? —

18. What retardation does the pitching occasion? —

19. A ship will sometimes sail well on one tack and indifferently on another —

20. Altho' the sailing of a vessel should ^{could} be reduced to first principles in a calm yet she would be found very defective in a sea —

21. Name the great difficulty of constructing a ship agreeable to principle

22. Are not modern ships over masted? — The ships of the ancients had much lower masts than those of the moderns —

23.