

by certain Experiments, and by Demonstration, drawn from the Eleventh Book of Euclid, hitherto thought infallible of all Mathematicians.

I will therefore premise some Suppositions, and from these afterwards, deduce a practicable way of making this Ship, which, though it may not deserve, like Jasons Argo, a place among the Stars, yet that way shall it of its own nature tend.

I suppose then First, That the Air hath weight, because of the vapours and exhalations, which are raised from and compass our Terraqueous Globe to the height of many miles. And this will not be denied me by such Philosophers, as are but any way versed in Experiments. And the proof of it may be made by evacuating, if not all, yet a great part of the Air, out of a Glass-vessel, which having been first weighed, and after the extracting of the Air weighed again, will be found notably lessen'd in weight. Now how much the weight of the Air is, I have found in this manner: I took a large Glass-vessel, the neck of which could be shut and opened by a Stop-cork; and being open I heated it at the fire, so that the Air in it being rarified, issued out of it in great part: Then I suddenly shut it, so that the Air could not re-enter, and weighed it: which done, I sunk the neck under water, the body of the Glass remaining all above the water; and opening it, the water ascended into the Glass, and filled the greater part of it. Then I opened it again, and let out the water, which I weighed, and measured the Bulk and quantity thereof. Whence