

I N T R O D U C T I O N .

vii

The perpendicular rising and falling of the mercury is measured by divisions on a plate divided into inches and tenths, and by a Vernies division into hundredths of an inch, which is fixed to the side of the tube.

T H E B A L A N C E .

The Balance used for weighing Salt Water was of the common kind, with the addition of two bottles with small necks, on each of which was a mark; by holding the bottle so that the mark was nearly the height of the Eye, the same quantity of water might be poured into it, certain to less than one grain in weight.

Suppose some water was poured into the
glass at the height of the eye, and the
mark was nearly the height of the eye,
then the same quantity of water might
be poured into it, certain to less than
one grain in weight.