

and XI., are omitted in the print. The former should be on page 9, before the word "Again," about two-thirds down the page: the latter, before the word "Discarding," at the second paragraph of page 11. No. XXVII. is also omitted at the beginning of page 32, and XXVIII. at the first paragraph from the top, page 33.

Several other trifling typographical errors found way into the first Essay, none of which, however have been observed, worthy of notice, except, that in some of the copies, at the end of the 7th line, 9th page, $\frac{ad}{bd}$ occurs where it should be $\frac{ad}{b'd}$, while in most of the copies, only the accent to the b is wanting. Also, in the 6th line from the bottom of page 45, the word *pieces* should be prices. I may as well in this place, refer to a few errors that occur in the second Essay, which, as well as the preceding, it will be well to turn to and correct with a pencil before reading the work. First, the word *and*, at the beginning of the 9th line, 58th page, should be transposed between the figure 10, and the word *cylinders*, in the same line. Second, the letter c , (referred to in the 13th line from the bottom of page 67,) should be on the cross bar nearest to a and b , Fig. 13, Pl. I. Third, in the 7th line of page 77, cb and cd should be ab and cd . The other errors that have been noticed, are merely mistakes of a letter or two, which the reader will readily correct as they meet his eye. Further remarks or explanations are not deemed necessary in this place.

In offering this little work to the Engineering profession, I would not be suspected of presuming that the subject has been exhausted, or that a want which has been long and deeply felt in this branch of the profession, is fully satisfied. I may, however, be allowed to hope, that my labors in the field will have been the means of effecting one step of advancement towards the attainment of so important a desideratum.