thrust, and it is upon the proper application of these elements, together with a judicious distribution of the material, rather than upon any difference in detail, that the perfection of any bridge structure depends; this may be illustrated by reference to Figures 5, 6, 7.

Fig. 5.

Figure 5 is the truss of the Burr Bridge; in this the upper chord and braces are acted upon by thrust, and the lower chord and posts by tension.

Fig. 6.

Figure 6 is the Howe Truss, without the counter braces; in this also, the upper chord and braces are subjected to thrust, and the lower chord and vertical rods are acted upon by tension.