Considering now the second method (which, for instance, was used at the Wheeling Bridge), we perceive, that it is only applicable, if in the line of the bridge behind either anchorage there is disposable room of the length of the cable. To manufacture the strands somewhere else and transport them in place is not possible, because a strand of straight wires can not be handled like a rope, and coiling it up would render it useless.

It is evident, that in the present case, where the bridge connects two crowded cities, such available room does not exist, and, therefore, that necessity already compels us to exclude this method. But even if the location would favor it, there are other reasons, which speak against strand-making on shore. When a number of wires, laid up straight without tension, are tied together and suspended in a curve, those in the lower part are considerably higher taxed than those in the upper. This difference of tension in the single wires may amount