PREFACE.

The following treatise was originally written for Van Nostrand's Eclectic Engineering Magazine, and published in a series of articles. It contains in general a description of the manufacture of wire cables, after the method invented and patented by the late John A. Roebling, and followed by him and his son, Col. W. A. Roebling, in the construction of the largest suspension bridges of this country. It also includes such theoretical investigations as pertain to an exact regulation of a cable, or chain, which may be found convenient in practice. The data of these calculations, as well as the diagrams of the apparatus and the description of the method of working, are taken from the East River Bridge, which,