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## Manual for Railroad Engineers and Engineering Students; Containing the Rules and Tables Needed for the Location, Construction, and Equipment of Railroads, as Built in the United States

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By George Leonard Vose

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Excerpt: . at Brooklyn, N. Y.f The sustaining power of a pile driven home, the resistance which it meets with, and the force of the blow, are, of course, equal. The subsequent settlement of the material around the pile, however, increases its supporting power, and this varies in different kinds of soil. This increased support cannot, however, be relied upon if there is any vibration in the piles, or if there is a scour about them. In foundations under water there will be a degree of fluidity given to the material by the operation of driving, which lessens the frictional resistance to the penetration of the pile, but the superior gravity of sand to that of water allows it to settle in close contact with the pile, and gives a greater coefficient of support, than if it was driven through the same kind of material in...



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