crushing strain than one of wrought iron. But, as Mr. Stoney remarks, the strength of very long pillars depends not on the strength of the material, but on its stiffness and capacity of resisting figures, hence “although a short pillar of cast iron will bear a much greater weight than a similar one of wrought iron, yet a very long wrought-iron pillar will support a greater weight than a similar one of cast iron, as the coefficient of elasticity