



**Catalogue of gate valves and fire hydrants;
manufactured by the Chapman Valve Mfg. Co.,
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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1888 Excerpt: ...weaker than the same metal, after having passed through the rolls or under the hammer; those which can be drawn into wire are still more considerably strengthened by that process. Metals are stronger at ordinary temperatures than when highly heated, and "annealing" is usually found to reduce their strength, although frequently increasing their ductility. "Hardening" as in steel, usually produces the contrary effect. The presence of impurities and the formation of alloys produce changes of strength, sometimes increasing, sometimes diminishing it. Thus the addition of carbon to pure iron (producing some form of steel) increases the strength up to a limit which being passed (cast iron being formed) a diminution of strength takes place. Alloying iron with other metals generally reduces its strength; and union with sulphur or with phosphorus impairs it very seriously under some circumstances. Hardness varies in the metals as considerably as their tenacity, and, like the latter quality, is greatly influenced in the same metal by very slight changes, either physical or chemical. Thus wrought iron is hardened by cold hammering and softened by annealing. Steel has its hardness wonderfully affected by the process of tempering. The addition of scarcely more than a trace of impurity often produces a marked change in the degree of hardness of other metals. The Powers Of Conduction for heat and electricity seem to have very similar relative values. Conductivity is reduced by increase of temperature and by presence of impurities. Gold has been drawn until the wire measured but Two'uo inch in diameter, and silver and platinum are nearly as ductile. Iron and copper are the most ductile of the common metals. Gold is the most malleable of all metals and h...

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