



The Practical Brass & Iron Founder` Guide A Concise Treatise on the Art of Brass Founding, Moulding ...

James Larkin



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. 1853 Excerpt: ...plating. We have also shown the amalgam of tin is largely used in what is called silvering mirrors, and that various amalgams of tin and zinc are employed for exciting electricity in the machine. ON BISMUTH. 07 BISMUTH. At a high temperature this metal is volatilized may be distilled in close vessels, and solidifies in foliated crystals. If it be merely melted in a crucible, and cautiously cooled, it crystallizes in well-defined cubes. Bismuth, as met with in commerce, is not pure, for it generally contains iron and arsenic. In order to purify it, it is to be dissolved in nitric acid the solution is to be decomposed by water, and the precipitate, after being boiled in a solution of soda, is to be mixed with black flux, and moderately heated in a crucible. Bismuth combines with copper to form a palered brittle alloy. It forms a brittle compound with silver and it has been proposed as a substitute for lead, in refining silver. It is said to form a more fluid oxide, which penetrates the cupel more readily than that of lead and may also be used in smaller quantity. With mercury it forms a very fluid alloy, and makes the following metals brittle by combination: tungsten, palladium, rhodium, gold, and platina. 98 ON FRICTION. It is principally employed in making fusible alloys, and as an ingredient in solders. It is often called in the arts tin glass. ON FRICTION. Friction is independent of the velocity at least when the velocity is neither very great nor very small. With hard substances, such as wood, metal, and stone, the amount of friction is simply as the pressure, without regard to surface, time, or velocity. Friction is greatest with soft, and least with hard substances. The diminution of friction by unguents depends on the nature of the u...

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