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Heat Treatment of Soft and Medium Steels; Theory and Practice of the Preliminary Heat Treatments Designed to Give Maximum Toughness to Steels Used for Machine Parts

By Federico Giolitti

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 242 x 186 mm. Language: English . Brand New Book ***** Print on Demand *****.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. 1921 Excerpt: .of inclusions in heattreated forging. X 70. Etched with 5 per cent. picric acid in alcohol. Therefore, there are left the effects caused by non-emulsified inclusions upon the behavior of steel when subjected to the ordinary physical tests usually specified. Of these extraordinarily various examples I will give only two. The first is afforded by a medium hard 2-per cent. nickel steel containing non-metallic inclusions of large dimension united in groups which forged down into elongated shapes looking like stripes in the micrograph. Figure 34, enlarged 70 dia. after etching with 5 per cent. alcoholic solution of picric acid, reproduces the appearance of such a group of inclusions taken after a very accurate and efficacious heat treatment has eliminated (by a process which we shall see further on in regard to the emulsified inclusions) the large strip of ferrite which had collected around the group in...



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