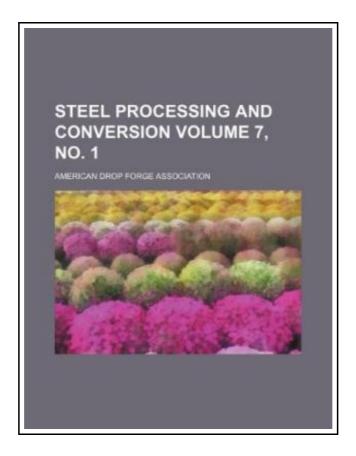
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### STEEL PROCESSING AND CONVERSION VOLUME 7, NO. 1



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 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: .substitution of alloy steels for the common carbon steels, has also hindered and side tracked the employment of ordinary grades of carbon steels in a number of instances where a proper heat treatment would have resulted in their use to the entire satisfaction of the service. Heat treating may be divided into distinct groups: a. Annealing b. Normalizing c. Double treatment 1. Heating and quenching for hardening 2. Heating for tempering. Transformation Ranges or Heat Treating Temperatures. When steel solidifies the change from the liquid to the solid state is not the only one occurring during cooling. Significant transformations in grain struc ture, while solid, with accompanying alterations in physical properties at sharply marked critical temperatures happen and are of great importance, since the modification of grain structure by judicious heat treatment depends upon these transformations at the respective critical temperatures. For Low Carbon Steel. Low carbon steel at high temperatures represents isomorphus mixtures (solid solution) of gamma iron and of carbon. On cooling to approximately 900 degrees C. (1,650 degrees F.) beta iron precipitates, until the whole mass has cooled to 760 degrees C. (1,3 90 degrees F.) when this beta ferrite changes to the alpha form and all a d d i tional precipitated iron from the solid solution is alpha ferrite, until it reaches 700 degrees C. when all alpha ferrite has precipitated and the isomorphous mixture of iron and carbon has reached the eutectic ratio or contains approximately 89 per cent carbon,...

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