



Preparation and Properties of Pure Iron Alloys, Vol. 1: Effects of Carbon and Manganese on the Mechanical Properties of Pure Iron (Classic Reprint) (Hardback)

By Robert P Neville

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Preparation and Properties of Pure Iron Alloys, Vol. 1: Effects of Carbon and Manganese on the Mechanical Properties of Pure Iron While many of the specific effects of carbon and manganese on the properties of iron are well known and the knowledge is being usefully employed in the processes of manufacture, there remains in spite of many investigations much that is not thoroughly understood. Manganese is known to affect the properties Of steel in at least three well recognized ways: (i) When present in sufficient amount it eliminates the red-shortness due to the presence of sulphur, thereby enabling the metal to be worked hot (2) it deoxidizes or helps deoxidize the steel, thereby eliminating the harmful effects Of oxides and gases which in some cases cause brittleness on forging or rolling; (3) it confers definite physical properties. There still remains, however, a lack Of knowledge as to the amount Of manganese needed for each function. In the hope of adding to the available information concerning this question the Bureau of Standards is conducting investigations on the effects Of deoxidizers and alloying elements...



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