



American Society for Testing Materials, Affiliated with the International Association for Testing Materials, Vol. 17: Proceeding of the Twentieth Annual Meeting, Held at Atlantic City, New Jersey, June 26-29, 1917 (Classic Reprint) (Hardback)

By American Society for Testing Materials

Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from American Society for Testing Materials, Affiliated With the International Association for Testing Materials, Vol. 17: Proceeding of the Twentieth Annual Meeting, Held at Atlantic City, New Jersey, June 26-29, 1917 Most Of the alloying elements, and notably carbon, man ganes, and nickel, retard this transformation greatly. Thus 2 per cent of manganese plus 2 per cent of carbon retard it so that in the water quenching Of thin pieces the austenite state is preserved. With 5 to 7 per cent of manganese it is SO slow that even in air cooling it goes only as far as the intermediate martensitic state. Hence the brittleness of these steels of intermediate manganese content. With say 12 per cent of manganese the transformation is so sluggish that the austenitic state is preserved even through a common slow cooling. The water-quenching of manganese steel in current manufacture is not to prevent the loss of the austenitic state, but to suppress the precipitation Of the iron-manganese carbide, cementite, which would occur during slow cooling. The broad plates of this cementite would embrittle the mass by forming partings...



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