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Report of the Committee Appointed by the Board of Trade to Enquire Into the Loss of Strength in Steel Rails Through Use on Railways with Appendices (Paperback)

By Great Britain Steel Committee

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. 1900 Excerpt: .patch of snow or water, or even by touching damp earth. The perfect development of the pearlitic patches points, however, to the rail having been normally cooled. If the rail had been locally quenched and martensite produced, it would, I believe, have been immediately obliterated by heat transmitted from the hot mass of the rail so that no trace of martensitic structure would remain. If this view is correct the structure of the St. Neots rail would point to the changes having been effected while the rail was actually in use. The remaining photographs on this plate are also interesting. Figure 5 represents the results of quenching rail steel, of similar composition to the St. Neots rail, at a temperature of 720. It resembles the upper or altered layer of the St. Neots rail, but the higher magnification (figure 7) proves it to consist of martensite...



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