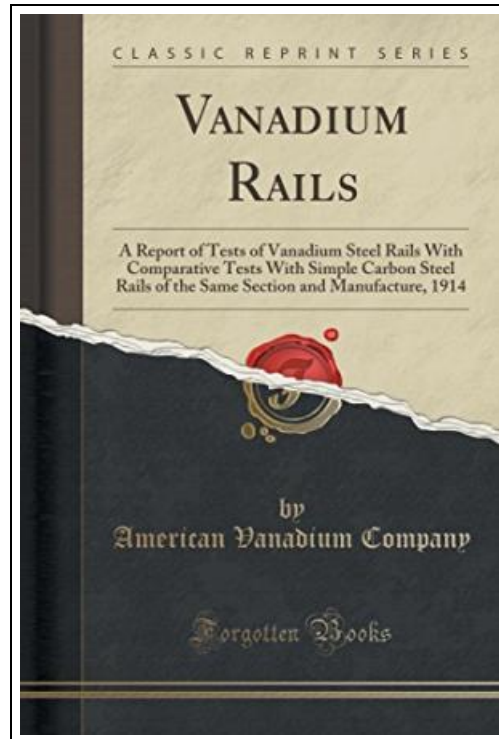


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Vanadium Rails: A Report of Tests of Vanadium Steel Rails With Comparative Tests With Simple Carbon Steel Rails of the Same Section and Manufacture, 1914 Convinced from results along other lines that the use of vanadium in rail steel will greatly reduce rail failures and at the same time greatly increase the wearing quality of the rails, the American Vanadium Company has had several heats of basic open hearth vanadium steel rolled into rails for test purposes. While no question exists as to the beneficial effects of vanadium in steel, the price until the past year has been too high to make it commercially practicable to use it in Rails. It is universally recognized that the rail situation is one of the most serious confronting the railroad officials today. Considerations, primarily of safety, and also of economy, urgently demand a decided improvement in the quality of rail steel. The tonnage of rails for replacement purposes has greatly increased. Published estimates from the statistics available place this increase at 50 percent, over that of a few years ago, or an increase from 1,000,000 tons annually to fully 1,500,000 tons. The railroads and rail makers have tried to meet the situation by increasing the weight of the rail section. At the same time harder, higher carbon steels have been used in the effort to obtain increased strength and wearing qualities; until now rails are rolled from practically spring steel, or low grade tool steel. The result, although attended with some degree of success, has failed to lessen rail breakage. On the contrary, the use of high carbon steel has introduced new causes of failure; namely, internal fissures,...

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