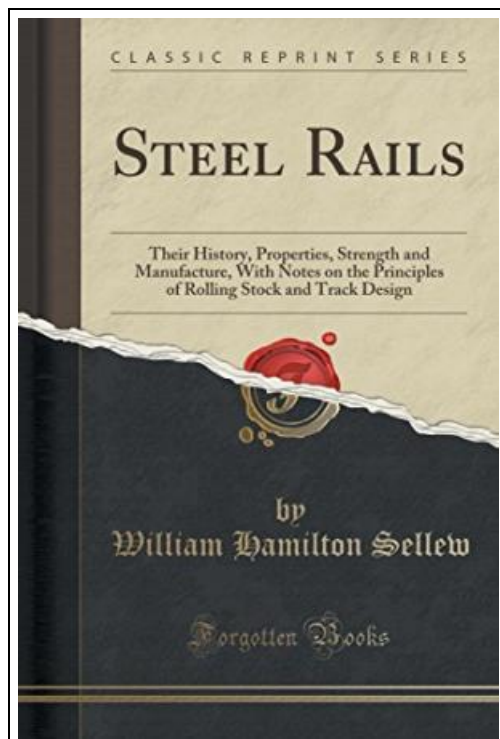


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Steel Rails: Their History, Properties, Strength and Manufacture, With Notes on the Principles of Rolling Stock and Track Design In this work the author has endeavored to systematize the knowledge in existence upon the subject, and to present in a concise yet clear form the most important features of the problem. The first chapter treats of the development of the present design of section with a comparison of the American rails with those in use on English Railways and on the Continent. In chapters two to five, inclusive, the external forces acting on the rail and the corresponding stresses they produce in the rail are discussed. The necessity and desire for information on this subject are widespread. While a considerable amount of general information is to be found scattered through the technical press and in the proceedings of the various Railway Associations and Engineering Societies, yet very little has been published dealing broadly with the principles of design of the rail in reference to the rolling stock and track structure. In recent years much thought has been given to the manufacture of rail steel, and investigators, it would seem, have turned their attention more to an examination of the various defects found in the process of manufacture than to the study of the duty of the rail. Quite early the question of the intensity of pressure existing between the wheel and the rail began to receive attention, but it was not until later that the bending stresses in the rail were investigated. Purely theoretical contributions to the latter subject were made by Zimmerman in 1888. The first practical investigations of the bending stress in the...

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