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ELECTRIC RAILWAY ENGINEERING (CLASSIC REPRINT) (HARDBACK)



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Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Electric Railway Engineering Wen TY years ago the Electric Railway existed only in the imagination of the electrician. Today it is a reality. What twenty years more will bring forth in this direction remains to be seen. Two systems are now in operation, the trolley and the storage battery. The trolley, being the most successful, is the one in gen eral use. In the trolley system the electrical circuit consists of. Two parts, the overhead and the ground circuit. In distributing the current, the rails are grounded and form one Side of the circuit. If they have a good electrical connection from one to the other through fish-plates already in position, they form a path of very low resistance. Where such connections are poor, the rails are reinforced by a continuous conductor running the entire length of the line. The other part of the circuit consists partly of a hard-drawn silicon bronze or Copper contact-wire of small size, but great tensile strength, which is suspended 17 to 18 feet above the track. (a diagram of the circuit is Shown in Fig 1.) This contact-wire is termed the working-conductor, and is carried over the centre of the track, at the height named, on insulators sup ported by span-wires running across from pole to pole and provided with additional insulators at their ends, or else by brackets which extend from poles placed on the side or centre of the street. The size of this wire is independent Of the number of cars operated, or the distance over which the line extends. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction...



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