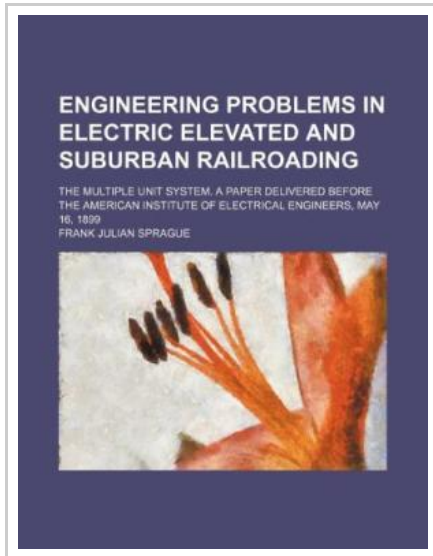




Engineering Problems in Electric Elevated and Suburban Railroading; The Multiple Unit System. a Paper Delivered Before the American Institute of Electrical Engineers, May 16, 1899

By Frank Julian Sprague

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. 1899 Excerpt: . master controller or operator s switch mounted on a standard, and fastened to the wood work of the cab. Through this master controller the pilot apparatus of the current varying controller and the reversers are governed. It is provided with a movable handle, operating a spring retracted spindle, which through various degrees of movement makes contact with the reverser circuit and with three determinate positions, coast. series, and multiple. Momentary contacts on these various points give any desired intermediate position of the main controller, which has a stepped movement. In order to maintain the controller at any point, or to keep the governing circuits or train lines energized, the handle of the master controller must be held in position. If the handle is released, whether from accident or design, the spindle instantly returns to coast position, and the controller automatically returns to the off position...



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