



## A Textbook on Electric Lighting and Railways Volume 2; International Correspondence Schools, Scranton, Pa (Paperback)

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By International Schools

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. 1901 Excerpt: .motors are often started by means of a small induction motor that is thrown out of use after the large machine has been brought up to synchronism. Single-phase synchronous motors are now seldom used. 40. Synchronous motors behave differently in some respects from direct-current machines. If the field of a direct-current motor be weakened, the motor will speed up in order to maintain the proper value of the counter E. M. F. If the field strength of a synchronous motor be changed, the speed cannot change, because the motor must keep in step with the alternator. Such a motor adjusts itself to changes of load and field strength by the changing of the phase difference between the current and E. M. F. Imagine a synchronous motor that runs perfectly free when not under load. If this machine were run up to synchronism and its field adjusted...



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