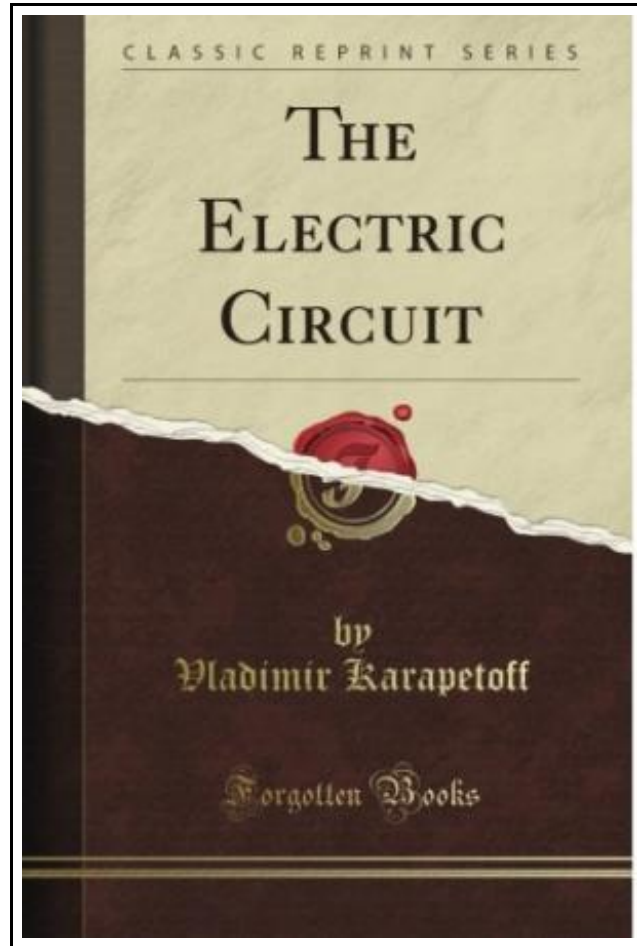


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Electric Circuit The pamphlet, together with the companion pamphlet entitled The Magnetic Circuit is intended to give a student in electrical engineering the theoretical elements necessary for calculation of the performance of dynamo-electric machinery and of transmission lines. The advanced student must be taught to treat every electric machine as a particular combination of electric and magnetic circuits, and to base its performance upon the fundamental theoretical relations rather than upon a separate theory established for each kind of machinery, as is often done. The first chapter is devoted to a review of the direct-current circuit, the next four chapters treat of sine-wave alternating-current circuits, and the last two chapters give the fundamental properties of the electrostatic circuit. All the important results and methods are illustrated by numerical problems of which there are over one hundred in the text. The pamphlet is not intended for a beginner, but for a student who has had an elementary descriptive course in electrical engineering and some simple laboratory experiments. The treatment is made as far as possible uniform, so that the student sees analogous relations in the direct-current circuit, in the alternating-current circuit, in the electrostatic circuit, and finally in the magnetic circuit. All matter of purely historical or academic interest, not bearing directly upon the theory of electric machinery, has been left out. An ambitious student will find a more exhaustive treatment in the works mentioned at the end of the pamphlet. The electrostatic circuit is treated in accordance with the modern conception of elastic displacement of electricity in dielectrics. No use has been made of the action of electric charges at a distance, or of...



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