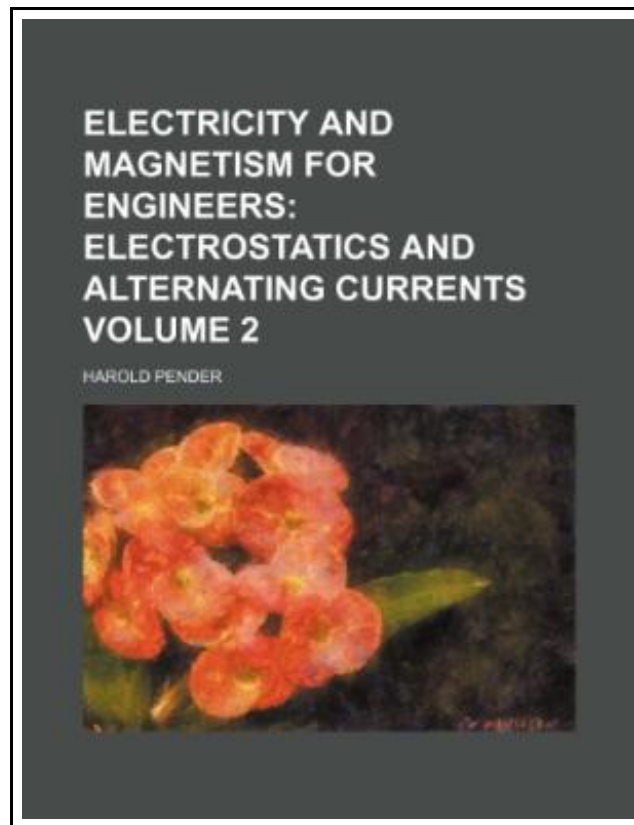


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ELECTRICITY AND MAGNETISM FOR ENGINEERS VOLUME 2; ELECTROSTATICS AND ALTERNATING CURRENTS



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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. 1919 Excerpt: . only the r.m.s. values and phase differences of sine-wave quantities may always be solved without considering the instantaneous values of these quantities. Problem 14.--(a) What is the r.m.s. value of the voltage required to establish a 60-cycle current of 10 amperes in a coil whose resistance is 2 ohms and whose self-inductance is 0.1 henry? (Note that such a coil is equivalent of a non-inductive resistance of 2 ohms in series with a coil having zero resistance and an inductance of 0.1 henry; see Article 126.) (6) Draw to scale a vector diagram showing the voltage drop in the coil due to its resistance, and the voltage drop due to its inductance, and the resultant voltage drop. (c) Does the voltage drop through the coil lead or lag the current, and by what angle? (d) What is the power factor of this coil for a 60-cycle current? (e) What would be the value of the voltage required to establish a 25-cycle current of 10 amperes in this coil? (/) What would be the value of the voltage required to establish a direct current of 10 amperes in the coil? Answer.--(a) 377 volts. (c) The voltage drop leads the current by an angle of 87.0 degrees. (d) 5.3 per cent. (e) 158.5 volts. (f) 20 volts. 173. Active and Reactive Components.--Consider any circuit in which a sine-wave impressed voltage produces a sine-wave current. Let V be the r.m.s. value of this voltage, let I be the r.m.s....



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