Engineering Mathematics a Series of Lectures Delivered at Union College

By A M Charles Proteus Steinmetz

Theclassics.Us, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1917 edition. Excerpt: .problem whether a maximum of a minimum occurs, or neither. For instance, if the problem is to determine the speed at which the efficiency of a motor is a maximum, the solution: speed=0, obviously is not a maximum but a mimimum, as at zero speed the efficiency is zero. If the problem is, to find the current at which the output of an alternator is a maximum, the solution i = 0 obviously is a minimum, and of the other two solutions, ii and t2, the larger value, , again gives a minimum, zero output at short-circuit current, while the intermediate value i gives the maximum. 101. The extremes of a function, therefore, are determined by equating its differential quotient to zero, as is illustrated by the following examples: Example 4. In an impulse turbine, the speed of the jet (steam jet or water...

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