



Principles of Transformer Design (Paperback)

By Alfred Still

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. 1919 edition. Excerpt: .sides plus one-half the area of the. lid. The cooling effect of the bottom of the tank is practically negligible, and is not to be included in the calculations. Example. What will be the probable maximum temperature rise of the oil in a self-cooling transformer with a total loss of 1200 watts, the tank--of sheet-iron without corrugations--measuring 2 ft.X2 ft. X3-S ft. high? The surface for use in the calculations is $5 = (3.5 \times 8) \times 2 = 30$ sq. ft., whence which , according to Fig. 32, indicates a 43 C. rise of temperature for the oil. The temperature of the windings at the hottest part of the surface in contact with the oil might be from 5 to 10 C. higher than the maximum oil temperature as measured by thermometer. Assume this to be 7 C. Assume also that the room tempe1ature is...

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