

Current Transformer Design Guide

An effective design of a Ring Type C.T. may be produced first time using the following procedure, without any previous experience.

Principle

In operation the C.T. will induce current in its secondary winding and fluxes which serves to completely oppose the magnetising effect of the primary current, except for that small proportion required to magnetise the core. This core magnetising component will therefore be only a small off-set of the secondary current to be used as a measure of the primary current.

Following these assumptions (i.e. that the C.T. has no leakage fluxes) and that its burden is purely resistive, the vector diagram for a pure ratio error C.T. will look like this:



V_2 = R.M.S. of secondary turns

V_2 = Secondary Voltage

Z_b = Burden Resistance

I_1 = Primary Current

I_2 = Secondary Current

I_m = Excitation Current

I_2 = Reactive component of I_1

I_{2r} = Watt loss of component I_2

α = Inductance

From this diagram, the primary current I_1 differs from the secondary I_2 in magnitude and phase angle. The angle error θ is, for V_2/Z_b and the magnitude of $I_1 = [(I_2/Z_b)^2 + I_m^2]^{1/2} = I_2^{1/2} [1 + \theta^2]$

As practice, the angle θ is so small as to allow the approximation $I_1/Z_b = I_2/Z_b$ and $\theta = I_m/I_2$ radian, i.e. the current error is due to the reactive component of the excitation current and the phase error is proportional to the reactive component I_m . This ratio error can be corrected by an adjustment to the turns ratio, the secondary winding being reduced by the ratio found of the ratio of a turn. Because of the non-linearity of the excitation characteristics, such corrections do not maintain accuracy as the current changes, and a choice must be made which gives good tolerance over the whole range of current. Care can be exercised with construction, ensuring the fraction of a turn to be removed.

The phase angle error, on the other hand, cannot be corrected, being a function of the reactive component of the excitation characteristics which vary widely over the current range and therefore allowing for the design of the transformer and choice of wire.

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Electronics Buyers' Guide, 1984 Rich's Business Guide to Santa Clara County's Silicon Valley & Northern California, 1986 *Rich's High-tech Business Guide to Silicon Valley and Northern California*, 1988 *Transformer and Inductor Design Handbook, Third Edition* Colonel Wm. T. McLyman, 2004-03-31 Extensively revised and expanded to present the state of the art in the field of magnetic design this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product A_p and core geometry K_g The book provides complete information on magnetic materials and core characteristics using step by step design examples and presents all the key components for the design of lightweight high frequency aerospace transformers or low frequency commercial transformers Written by a specialist with more than 47 years of experience in the field this volume covers magnetic design theory with all of the relevant formulas *Instruments & Control Systems*, 1965 **Model Railroad Craftsman**, 1973 *Air Trails Pictorial*, 1958 Model Railroader, 1959 *Engineering; an Illustrated Weekly Journal*, 1964 **Wireless World**, 1932 Aviation Week & Space Technology, 1960 **The Wireless World**, 1932 **The Wireless World and Radio Review**, 1932 Practical Transformer Design Handbook Eric Lowdon, 1989 **Transformer and Inductor Design Handbook** Colonel Wm. T. McLyman, 2017-12-19 With its practical approach to design *Transformer and Inductor Design Handbook* Fourth Edition distinguishes itself from other books by presenting information and guidance that is shaped primarily by the user's needs and point of view Expanded and revised to address recent industry developments the fourth edition of this classic reference is re organized and improved again serving as a constant aid for anyone seeking to apply the state of the art in transformer and inductor design Carefully considering key factors such as overall system weight power conversion efficiency and cost the author introduces his own new equation for the power handling ability of the core intended to give engineers faster and tighter design control The book begins by providing the basic fundamentals of magnetics followed by an explanation of design using the K_g or A_p techniques It also covers subjects such as laminations tape cores powder cores and ferrites and iron alloys In addition new topics include Autotransformer design Common mode inductor design Series saturable reactor design Self saturating magnetic amplifier Designing inductors for a given resistance With the goal of making inductors that are lighter and smaller but still meet requirements this book helps users avoid many antiquated rules of thumb to achieve a better more economical design Presenting transformer design examples with step by step directions and numerous tables and graphics for comparison it remains a trusted guide for the engineers technicians and other professionals who design and evaluate transformers and inductors It also serves as an ideal primer for students illustrating the field for them from the ground up *The Design of Alternate-current Transformers* Robert Willsher Weekes, 1893

Transformer and Inductor Design Handbook Colonel William T. McLyman, 1978 Design and Construction of 5 KW - 1,000 Ampere - 110/5 Volt High Current Transformer E J Wickersham, 2023-07-18 Focused on the technical design

challenges of high current transformers this guide provides a comprehensive exploration of the science and mathematics behind their construction With detailed diagrams and practical advice this book is ideal for engineers and students of electrical engineering This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Auto-transformer Design Alfred Henry Avery,1909

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