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ELECTROTECHNOLOGY CHAPTER 7 Transformers 7.1

Transformers in general Transformers are used for raising or lowering the voltage in ac circuits with a corresponding decrease or increase in the current. Their construction is the simplest of all ac machines. The principal elements of a transformer are; (a) (b) (c) (d) (e) the magnetic circuit, the ...

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8.2 Name TWO sources of losses that occur in a transformer. (2)

8.3 A single-phase transformer has 42 turns on the secondary winding and is connected to a 210V AC supply. The output voltage is 70V and the primary current is 218 mA. Determine the following: 8.3.1 Primary number of turns (2) 8.3.2 Secondary current in amperes (2)

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Since a winding ratio n_1/n_3 15 is needed and a minimum of 35 turns for n_1 in order to avoid saturation, we can choose $n_3=3$ turns n_1 $n_2=45$ turns for a n_1/n_3 ratio of 15 To check whether the turns will theoretically fit in the available window space, we chose AWG#26 (which is appropriate for the skin depth for $f_s=100\text{kHz}$) for n_1 and n_2 .

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Forward Converter Design Note - Mouser Electronics

4a 4b while the filtering inductance current. i_L circulates through S_1 , S_2 , S_3 , S_4 . At this moment, the current through the secondary transformer is increasing quickly. The voltage of the primary winding of the transformer is $U_1 = N_1 \frac{d\Phi}{dt}$. The voltage in front of the output filter is $U_{AB} = U_2 \frac{N_2}{N_1} = U_1 \frac{N_2}{N_1}$.
 $U_1 U_2 U_{AB} N_1 N_2 i_L$...

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Electrical engineering is an engineering discipline concerned with the study, design and application of equipment, devices and systems which use electricity, electronics, and electromagnetism. It emerged as an identifiable occupation in the latter half of the 19th century after commercialization of the electric telegraph, the telephone, and electrical power generation, distribution and use.

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Electrical engineering - Wikipedia

The goal for the input filter design should be to achieve the best compromise between total performance of the filter with small size and cost. UNDAMPED L-C FILTER . The first simple passive filter solution is the undamped L-C passive filter shown in figure (1). Ideally a second order filter provides 12dB per octave of attenuation after the cutoff

Input Filter Design for Switching Power Supplies

This module provides students: With the knowledge on AC Machines, three phase Transformers and three phase Machines

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The LC filter used at the gate is used as an EMI filter for the voltage supply. It takes in a dc voltage and gives a dc voltage but ac current. Effectively the LC circuit reduces the current L1 16.48m V1 30 V2 L2 39.6m L3 3.25m L4 3.83m R2 100 D4 MUR460 D5 MUR460 D6 MUR460 M2 IRF1404 R3 47 C3 940n C4 100 μ L6 6.37m.tran 500m K L2 L3 L4 1

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