

## Lecture 03 Power Transformers

*Mod-01 Lec-03 Lecture-03-Modeling of Single Phase TransformersElectric machines-Transformers-Lecture-03-Transformer-Tests(Google-Meet)-084902020*

Electric machines: Transformers Lecture#4: Autotransformer 3-ph transformer (Google Meet) 12/09/2020 TRAN 03 - The Real Transformer (complete) BASIC ELECTRONICS Lecture - 03 04. Transformer Basic Lecture - 04 02 - What is a Transformer \u0026amp; How Does it Work? (Step-Up, \u0026amp; Step-Down Transformer Circuits) LEC - 03 I WORKING OF TRANSFORMER II TRANSFORMER II SSC JE 2020 II CRASH COURSEHBEE Introduction to Transformers (Full Lecture) Alternating Current 08 : Transformers - STEP UP \u0026amp; STEP DOWN - Energy Losses in Transformers JEE/NET Performing a Transformer-Turns-Ratio-Test-with-the-Vanguard-ATRT-03-32 Electric-machines-lectures-Magnetic-Circuit-Lecture-03-Part-01-(ZOOM-meeting)-194082020 Construction of three phase transformer Distribution Transformers I Learn the basics of differential protection of Transformers Power-Transformer-groundbreaking-technique-Lesson-1-Voltage-Current-Resistance(Engineering-Circuit-Analysis) Transformers How-does-a-Transformer-work-Working-Principle-electrical-engineering-Transformers-\u0026amp; Earth-Connections

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Lecture 03 - Power Transformers Tip - transformer efficiencies are high and by assuming the input power equals the output power the above voltage and current relationships are easily derived: input power (in VA) =  $V_1 \times I_1$  with equals the output power =  $V_2 \times I_2$ , which rearranged give the above.

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ELG4125: Lecture 2 Power Transformers - Engineering

POWER TRANSFORMER A transformer is a static machine used for transforming power from one circuit to another without changing frequency. Power Transformers refers to the transformers used between the generator and the distribution circuits, and these are usually rated at 500 kVAand above. Power Transformers are of following type: 1.Small power transformers 500 to 7500 kVA 2. Medium power transformers 7500kVA to 100 MVA 3.

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Power Transformers - An Introduction

Unless you are living 'off the grid', you are using electricity from an electrical system that uses a transformer. Power stations use electrical transformers to increase voltage. Sub-stations use electrical transformers to decrease voltage. Even your smartphone and laptop use transformers to charge their batteries.

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The copper losses are:  $2 \times 2.65 \times 2.0445 \times 189 \text{ Cu Sq P I R W} = = =$  The core losses are:  $( ) \times 2 \times 2.234.85 \times 52.5 \times 1050 \text{ p core C V a P W R} = = =$  The output power of the transformer at the given Power Factor is:  $\cos 230.65 \times 2 \times 36.9 \times 12.000 \text{ out SS P V I W u} = = =$  Therefore, the efficiency of the transformer is 100% 98.03% out Cu core out P P P P q = = + + ELEN 3441 Fundamentals of Power Engineering ...

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Lecture 03 Power Amplifiers 4 The instantaneous power from the dc supply is  $2 \hat{I} P = 8 \frac{1}{4} \frac{1}{4} E = 8 \frac{1}{4} \frac{1}{4} k + \hat{E} + \hat{E} \sin \bar{n} P \text{ or} = 8 \frac{1}{4} \frac{1}{4} + \hat{E} + 8 \frac{1}{4} \frac{1}{4} + \hat{E} \sin \bar{n} P$ . Since the average value of the sine term is 0, the average power from the dc supply is  $2 \hat{I} = 8 \frac{1}{4} \frac{1}{4} + \hat{E}$ . The average signal power in load resistor R is, from Eqn. [3-4],  $2 E = + \hat{E}$

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