Lecture 13

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EE114 - Power Engineering 1

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Efficiency:- $\eta = \frac{l_{\text{out}}}{l_{\text{out}} + l_{\text{coss}}}$

Veltage regulation:

Voltage regulation = 1/0-NL/- 1/0-fL/
1/0-fe/

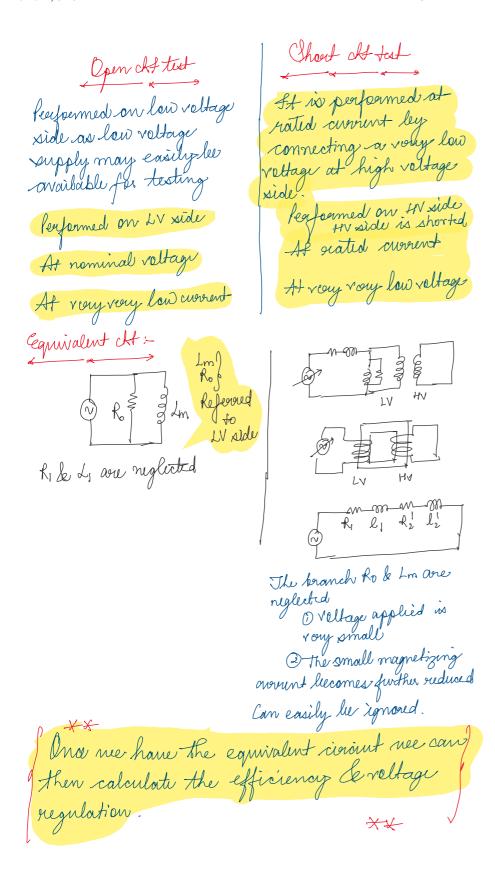
The change in reltage nehew the load is suemoved. Edeally we need meant to have the veltage regulation to be zero. But peractically, the voltage of the transformer at no load is going to be slightly higher than the case when full load is connected to the transformer.

How to test the transformer before deploying it to the field?

We do not load a framfarmer upto full ratings because there may not be a ficktions load of such a high rating available for testing.

We perform some texts to find equivalent cht parameters and then calculate the efficiency and regulation.

The tests are called open-cht tests @short-cht tests



* Autotransformer:

In case new don't want isolation and only want the voltage gain

