

**EXPERIMENT NO. 2****Performance evaluation of a Medium and Long Transmission Line**

**Aim:** To determine voltage and power at the sending end and to regulate the voltage using Medium and Long Transmission line model.

**Apparatus:** MATLAB

**Theory:** The transmission line having its effective length more than 80 km but less than 250 km, is generally referred to as a medium transmission line. Due to the line length being considerably high, admittance  $Y$  of the network does play a role in calculating the effective circuit parameters, unlike in the case of short transmission lines. For this reason, the modelling of a medium length transmission line is done using lumped shunt admittance along with the lumped impedance in series to the circuit.

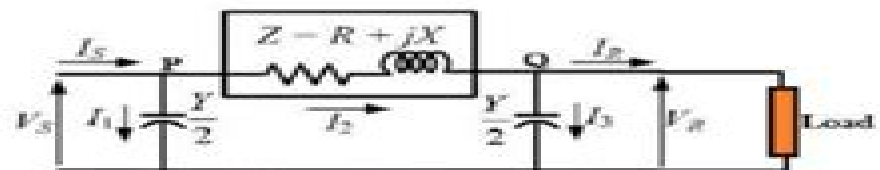
These lumped parameters of a medium length transmission line can be represented using two different models, namely-

- 1) Nominal  $\Pi$  representation.
- 2) Nominal  $T$  representation.

**Nominal  $\Pi$  Representation of a Medium Transmission Line**

In case of a nominal  $\Pi$  representation, the lumped series impedance is placed at the middle of the circuit where as the shunt admittances are at the ends. As we can see from the diagram of the  $\Pi$  network below, the total lumped shunt admittance is divided into 2 equal halves, and each half with value

$Y/2$  is placed at both the sending and the receiving end while the entire circuit impedance is between the two. The shape of the circuit so formed resembles that of a symbol  $\Pi$ , and for this reason it is known as the nominal  $\Pi$  representation of a medium transmission line. It is mainly used for determining the general circuit parameters and performing load flow analysis.



Nominal  $\Pi$  network of medium transmission line.

# Electrical Systems Simulation Lab Manual

**Lei Shi**



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