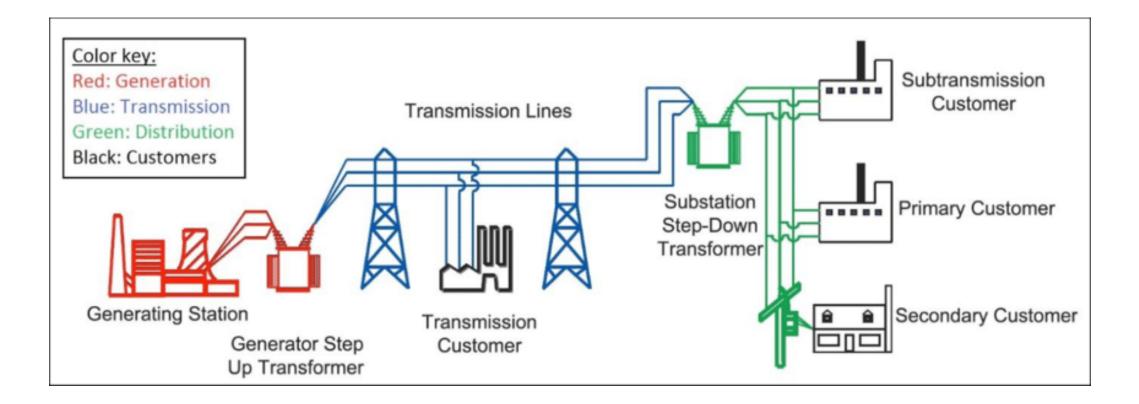


WELCOME TO Adda 247

Hard work matters!



Transmission line parameters





Topics to be covered today:

- Parts of transmission system
- Operating voltage
- Conductor materials
- Transmission line parameters
- Skin effect



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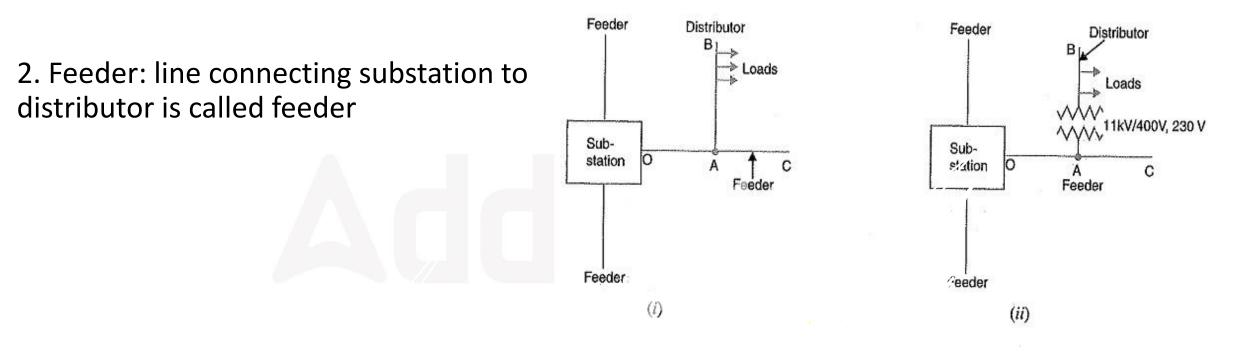
Parts of transmission system

1. Transmission line: Line connecting generating station to substation is called transmission line



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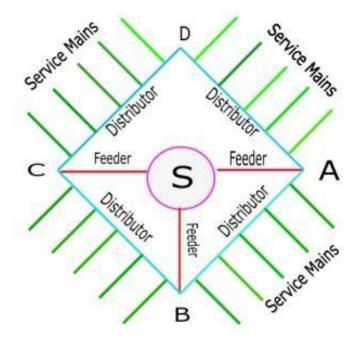
2. FEEDER





3. Distributor

3. Lines connecting secondary substation to service main is called distributor.





Operating voltage level:

- High voltage: 11 kv,33 kv
- Extra high voltage: 66 kv,132 kv,220kv,400kv
- Ultra high voltage:765 kv or above





Conductor materials:

- The material used as conductor must possess the following props:
- 1. Low specific resistance
- 2. High tensile strength
- 3. Low specific gravity to give low weight
- 4. Low cost in order to use over long distance



Types of conductors:

1. Solid conductors

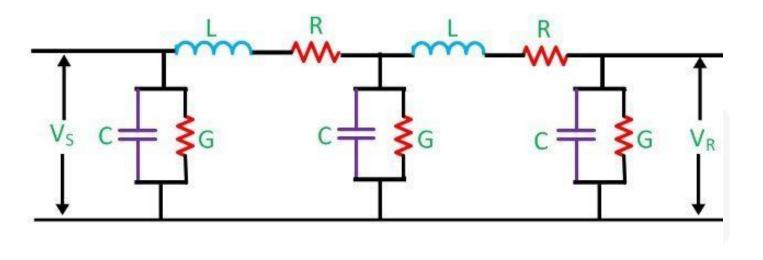
2. Stranded conductors



3. Hollow conductors



Parameters of transmission lines:



Tranmission Line Model Z = R + jwL, Y = G + jwC

Circuit Globe





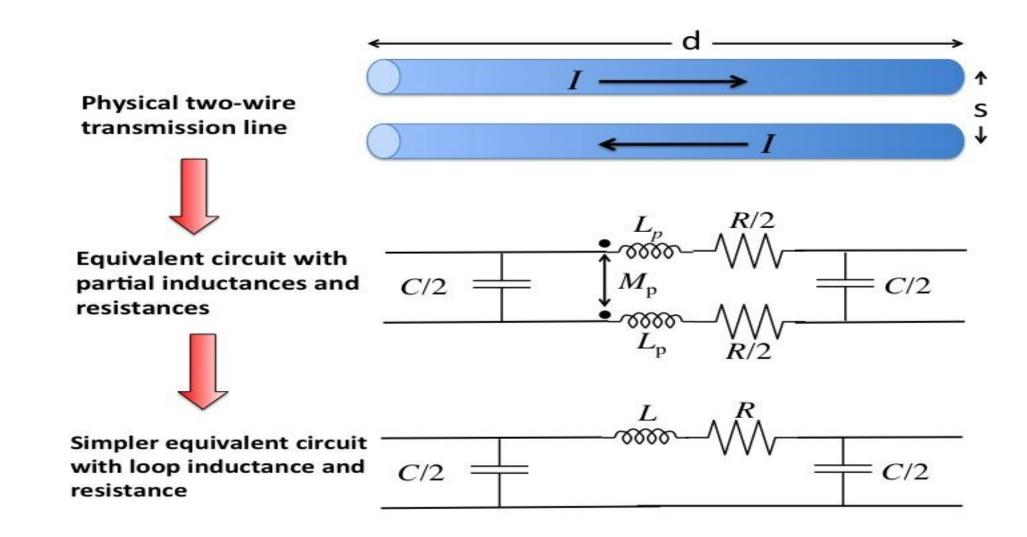








Inductance of transmission lines:





Inductance of transmission lines:





Topics to be covered tomorrow:



New Product available on Adda247 App





THANKS FOR

Watching Adda 247







