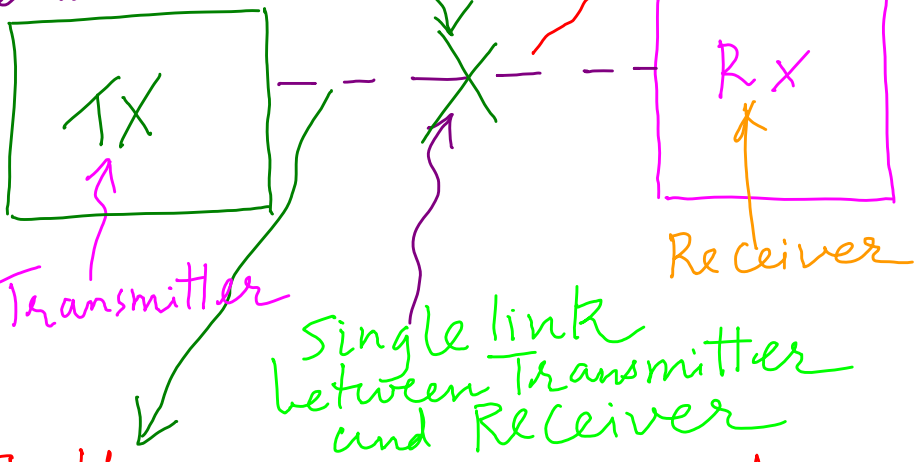
DIVERSITY:
can be employed to overcome Fading
overcome effects of DEEP FADE
Combat Fading

Principle of Diversity:

If single link is in deep Fade, performance is BAD.

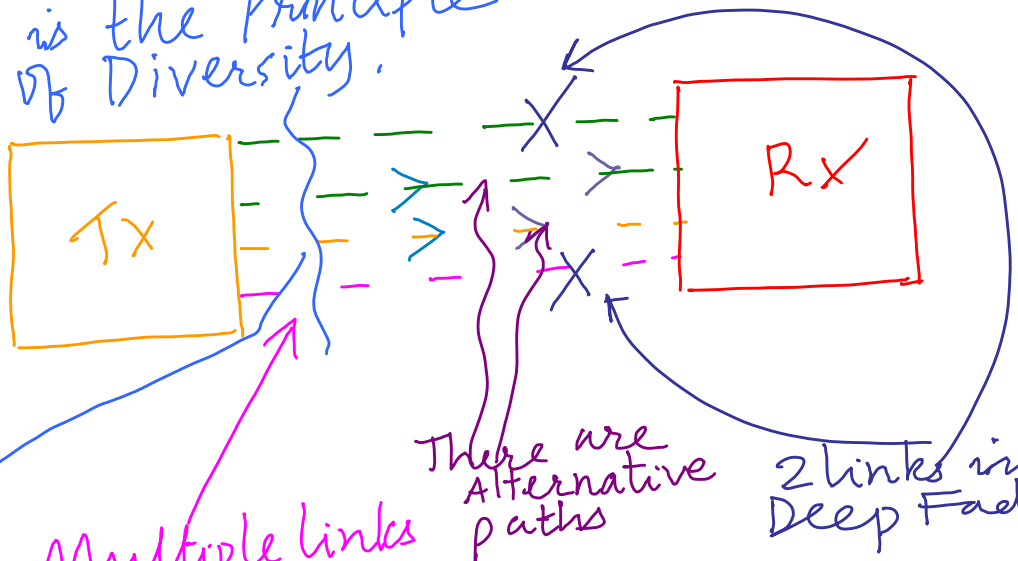


Single link between Transmitter and Receiver

If this single link is in a deep Fade it Disrupts communication.

Consider a system with multiple links.

This is the Principle of Diversity.



There are Alternative paths

2 links in Deep Fade

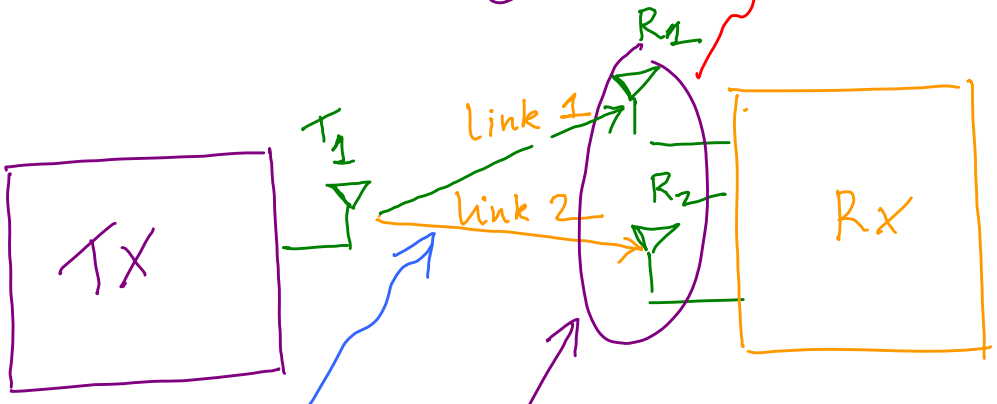
Multiple links between Tx, Rx

Therefore communication is NOT disrupted.

There is DIVERSITY in the system. } — Alternative Paths.

Example of Diversity:

Antenna Divesity



Introduces Diversity.

Multiple Receive antennas.

Receive Diversity $\Rightarrow$ Multiple Receive Antennas.