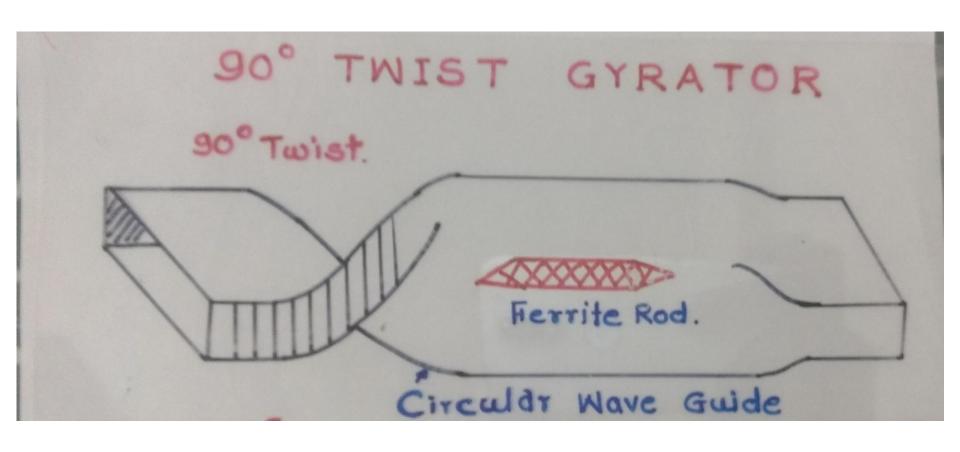
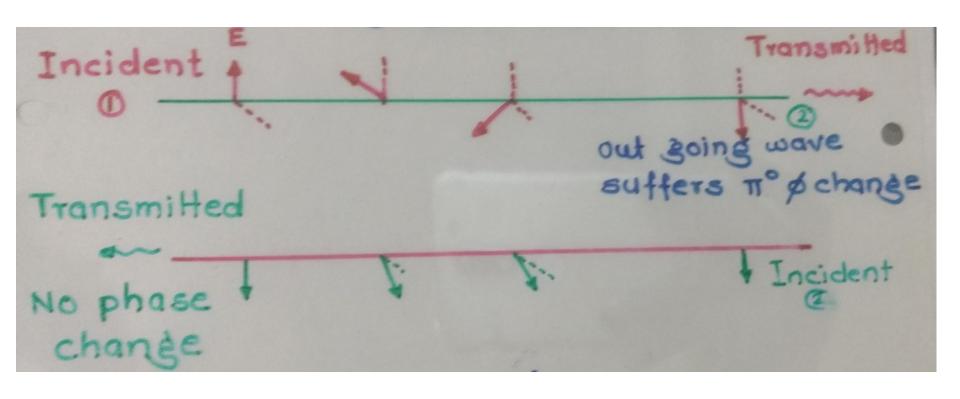
Gyrator

Gyrator is a nonreciprocal ferrite device. It is a two port device that has a relative phase shift of 180° in the forward direction and 0 (zero) phase shift in reverse direction.

90 TWIST GYRATOR



90 TWIST GYRATOR



90 TWIST GYRATOR

- Rectangular guide → 90 Twist
- Both rectangular guides have same orientational ports.
- Central circular guide contain axially magnitized thin cylindrical ferrite rod – with tapered end.....to avoid reflections.

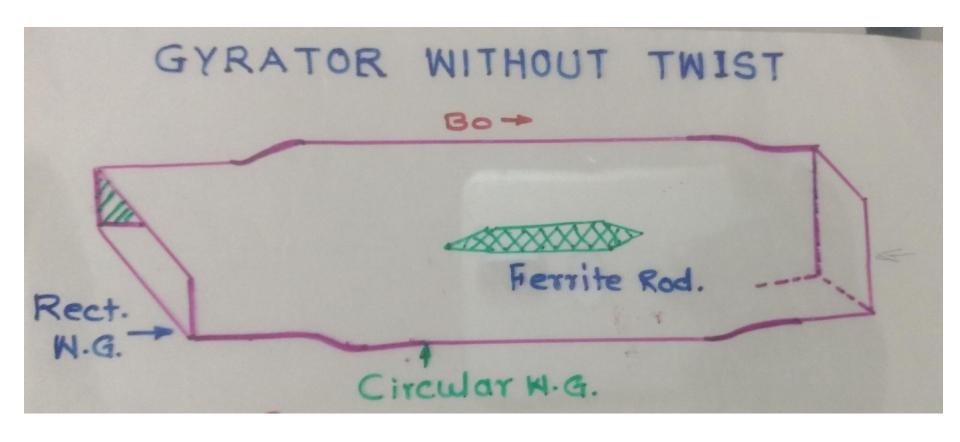
LEFT TO RIGHT

- Twist waveguide wave rotate Anti clockwise 90
- Ferrite rod 90 rotation Anti clockwise
- Wave processing toward left to right is inverted i.e. shifted by 90

RIGHT YO LEFT

Faraday rotation 90 in same sense
& cancel by rotation by twisted
section which is 90 clockwise

GYRATOR WITHOUT TWIST



GYRATOR WITHOUT TWIST

