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UNIT V CIRCULAR WAVE GUIDES AND RESONATORS 10

Bessel functions – Solution of field equations in cylindrical co-ordinates – TM and TE waves in circular guides – wave impedances and characteristic impedance – Dominant mode in circular waveguide – excitation of modes – Microwave cavities. Rectangular cavity resonators, circular cavity resonator, semicircular cavity resonator, Q factor of a cavity resonator for TE₁₀₁ mode.

TUTORIAL:15

TOTAL: 60

TEXT BOOKS:

1. J.D.Ryder "Networks, Lines and Fields", PHI, New Delhi, 2003.
2. E.C. Jordan and K.G. Balmain "Electro Magnetic Waves and Radiating System, PHI, New Delhi, 2003.

REFERENCES:

3. B.Somanathan Nair, Transmission Lines and Wave guides, Sangune Technical publishers,2006.
4. David M.Pozar: Microwave Engineering – 2nd Edition – John Wiley 2000.

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