

Unit II:-

Topics: Taylor's Series, Laurent's Series, Zeros and Singular points, residues and residue theorem

Problems:

- Q. 04—30/Exercise 22 (on page 184-185) (Adv. Mathematics for Engineers by Chandrika Prasad)
- Solved Example 12.33 & 12.35 (on page 12.33 & 12.35) (J&I)
- Solved Example 12.40, 12.41 & 12.42 (on page 12.44-- 12.45) (J&I)
- Solved Example 13.2-- 13. 5 (on page 13.4—13.7) (J&I)
- Solved Example 13.8-- 13. 14 (on page 13.12—13.16) (J&I)
- Solved Example 13.17 (on page 13.19) (J&I)

Topics: Evaluation of Real Integrals by Contour integration

Problems:

- Solved Example 1 (on page 186) (Adv. Mathematics for Engineers by Chandrika Prasad)
- Solved Example 2,3 (on page 188) (Adv. Mathematics for Engineers by Chandrika Prasad)
- Q. 01—10/Exercise 23 (on page 191) (Adv. Mathematics for Engineers by Chandrika Prasad)