

**QUESTION 4:**

ELE2601/101/3/2019

A 400 V three-phase, 50 Hz system, ABC sequence supplies the following loads:

- A star-connected load with the following phase impedances:

$$Z_{AN} = Z_{BN} = Z_{CN} = 10 \angle 10^\circ \Omega$$

- A delta-connected load of equal phase impedances:

$$Z_{AB} = 15 \angle 35^\circ \Omega; Z_{BC} = 30 \angle -75^\circ \Omega; Z_{CA} = (19 + j27) \Omega$$

4.1 Use VAB as reference and determine the following quantities:

- 4.1.1 The magnitude and angle of the currents drawn by the star-connected load ( $I_{AN}$ ;  $I_{BN}$ ;  $I_{CN}$ ). (6)
- 4.1.2 The magnitude and angle of the phase ( $I_{AB}$ ;  $I_{BC}$ ;  $I_{CA}$ ) and line ( $I_A$ ;  $I_B$ ;  $I_C$ ) currents drawn by the delta-connected load. (12)
- 4.1.3 Draw (not to scale) the voltage and current phasor diagrams for the star and the line and phase currents for the delta-connected loads respectively. Indicate the phase angles. (6)

4.2 Two wattmeters are now connected such as it is possible to measure the combined active power drawn by the two loads, with current coils being inserted on line A (for wattmeter 1), and on line C (for wattmeter 2).

- 4.2.1 Calculate the readings on each wattmeter. (6)

**[30]**

# Ele2601 Telecommunication Study Guide

**Christian G. Meyer**



## **Ele2601 Telecommunication Study Guide:**

## Decoding **Ele2601 Telecommunication Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ele2601 Telecommunication Study Guide**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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