

INDUSTRIAL ELECTRONICS NI

QUESTION 4 FEBRUARY 2022 QUESTION 4

4.1 A microwave oven transformer has 250 turns on the primary winding and 2 500 turns on the secondary winding. It is connected to an alternating-current supply of 240 V. The current drawn by the primary coil is 1,5 A when the oven is switched on.

Determine the following:

- 4.1.1 The turns ratio of this transformer (2)
- 4.1.2 The voltage developed across the secondary winding (3)
- 4.1.3 The current flow through the secondary winding (3)

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Puja Mehta

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