

QUESTION 1

Determine current flowing in the load by

- (i) Applying Thevenin's theorem
- (ii) Applying the superposition theorem
- (iii) By transforming the two voltage sources and their associated reactance into current sources (and thus form a pair of Norton generators)



$$v_1 = \sqrt{2} \times 415 \cos(100\pi t) \quad \text{volts}$$

$$v_2 = \sqrt{2} \times 415 \sin(100\pi t) \quad \text{volts}$$

Solution

Part a

The root mean square values are given as,

$$V_1 = 415 \angle 90^\circ$$

$$V_2 = 415 \angle 0^\circ = 415$$

The load impedance,

$$Z_L = 50 \text{ ohms } @ 0.7 \text{ pf}$$

Converting into a polar representation,

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Mick Betts, Robin Smith



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Developing the Credit-Based Modular Curriculum in Higher Education Mick Betts, Robin Smith, 2005-08-12 This text provides guidance for building curriculum structures and examines the models that can be used Options such as accreditation of prior and experiential learning in company accreditation work based learning *Technical Education and Industrial Training* ,1973 **Electronic and Electrical Engineering Texts** ,1967 **Sample Census 1966: Great Britain, Qualified Manpower Tables** Great Britain. Office of Population Censuses and Surveys, Great Britain. General Register Office (Scotland), 1971 Compilation of statistical tables resulting from the 1966 population census of the UK on qualified labour force holding higher education certificates and occupational qualifications includes texts of questionnaires used Bulletin Institute of Mathematics and Its Applications, 1979 **Instrument Practice** ,1961 Highways and Bridges and Engineering Works ,1955 *Electronics and Power* ,1967 IEE centenary issue 1871 1971 v 17 no 4 Apr May 1971 **International Journal of Electrical Engineering Education** ,1994 Electronic Engineering ,1972 **The Post Office Electrical Engineers' Journal** ,1972 **Electrical Times** ,1966 **The Electrical Review** ,1972 Telegraphic Journal and Monthly Illustrated Review of Electrical Science ,1959 Engineering ,1974 *The Illuminating Engineer* ,1963 **Telegraphic Journal and Electrical Review** ,1958 **The Engineers' Digest [American Edition] Review of Engineering Progress Abroad** ,1954 **The Journal of the Chartered Institution of Building Services** Chartered Institution of Building Services, 1982 *Current Engineering Practice* ,1977

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