

N2 Electrical Trade Theory

Module 1: Alternating current circuit theory



DEFINITIONS

Alternating current (AC) – an electric current that reverses its direction many times a second at regular intervals

Average value – the average of all instantaneous values during one cycle of a sine wave

Capacitive reactance – the opposition that is offered to the flow of current in a capacitive circuit when an AC passes through it (X_C)

Conductor – a substance or material that can freely conduct the flow of charge carriers in the form of electrons from one atom to another in a specific material

Cycle – each repetition of a variable quantity, recurring at equal intervals

Delta connection – when three coils are connected in series to form a closed loop

Effective (or RMS) value of an AC – that value of AC that produces the same amount of heat energy, at the same rate, as a DC would, if passed through an identical resistance

Form factor – the ratio of the RMS value of a voltage or current to the average value of the voltage or current wave

Generator – a device that converts mechanical energy into electrical energy

Impedance – the total opposition impeding the passage of an AC in a circuit comprising combinations of resistors and reactances (Z)

Inductive reactance – the opposition that is offered to the flow of current in an inductive circuit when an AC flows through it (X_L)

Instantaneous voltage or current – the instantaneous value of voltage or current reached by a waveform at any instance in time

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SJ Ball



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The Electrician ,1894 Encyclopaedia Britannica ,1929 *Mechanical Engineering* ,1919 *The Electrical Review* ,1914 **New York Review of the Telegraph and Telephone and Electrical Journal** ,1884 **Engineering Journal** ,1924 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924

Western Electrician ,1889 **Electrical World** ,1893 **The Engineer** ,1901 *Metal Worker, Plumber and Steam Fitter* ,1881 **Electrical Engineering** ,1907 *The Electrician* ,1950 **The Official Index to The Times** ,1921

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