

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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Wenbin Ji



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Electrical Engineer ,1911 *Basic Electricity* Milton Kaufman,J. A. Wilson,1973 **The Popular Science Monthly** ,1919 *Machinists' Monthly Journal* ,1918 *N2 Electrical Trade Theory* S. A. Chuturgoon,2021 **The Publishers' Trade List Annual** ,1979 **The Electrical Journal** ,1900 **Popular Science Monthly and World's Advance** ,1916 **Gunners' Instruction (gun Companies) ... 1916-1917** ,1916 Electrical Trade Theory N2 Student's Book SA Chuturgoon,2021 **The Electrician** ,1900 *Electrical Trade Theory N2 : New Syllabus* Gerrit Reinder Teunissen,1997 Collier's Hansi,1916 **The Electrician** ,1941 *Canadian Electrical Engineering Journal* ,1983 English Mechanic and World of Science ,1898 **Current Index to Journals in Education** ,1993 **Machinists' Monthly Journal.** **Official Organ of the International Association of Machinists** ,1918 English Mechanic and Mirror of Science ,1898 **Journal of Engineering Education** ,2006

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