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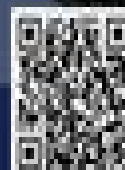
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Padhraic Smyth



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analysis ac stands for alternating current it means it is a voltage or a current that where the signal actually changes sign it is positive sometimes it is negative sometimes

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about transcript the ratio of a sinusoidal voltage to a sinusoidal current is called impedance this is a generalization of ohm's law for resistors we derive the impedance of a resistor inductor and capacitor the inductor and capacitor impedance includes a term for frequency so the impedance of these components depends on frequency

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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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