## Periodic signals

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A signal is periodic with base period $\mathrm{T} 0>0$ if for all $n \in N$ holds that $s(t)=s(t+n T 0)$
where •T0 denotes the smallest value such that the definition holds,

- $\mathrm{fO}=1 / \mathrm{TO}$ denotes the base frequency of the signal given in Hz , and $\cdot \omega 0=2 \pi f 0$ is called angular frequency.
Note: The angular frequency may be given in rad/s, where $1 \mathrm{rad}=$
$1 / 2 \pi \mathrm{~Hz}$


By alexey192
cheatography.com/alexey192/


Energy and power of signals


Not published yet.
Last updated 31st July, 2023.
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