RC and RL transients, impedance and resonance

GRE Subject Test · GRE Physics · Vocabulary in context

Word	Example
resonance /ˈrezənəns/	At **resonance**, the inductor and capacitor reactances cancel.
transients	**Transients** die away after the switch is closed.
impedance /ɪmˈpiːdəns/	Use complex **impedance** to retain the phase information.
reactance /rɪˈæktəns/	A capacitor's **reactance** is $1/(\omega C)$. $1/(\omega C)$
phase /feɪz/	In a capacitor, current leads voltage in **phase** by 90°. $90°$
quality factor	A high **quality factor** gives a sharp resonance peak.

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