



## Ch5 AC circuit power analysis

### 5.2 Average Power

- Example 8.4 Determine the average power absorbed by each of the passive elements and supplied by each of the sources.

Apply KVL, we can determine the currents are:

$$I_1 = 5 - j \cdot 10 = 11.18 \angle -63.43^\circ \text{ A}$$

$$I_2 = 5 - j \cdot 5 = 7.071 \angle -45^\circ \text{ A}$$

The current that passes through the resistor is:

$$I_1 - I_2 = -5j = 5 \angle -90^\circ \text{ A}$$

$$\text{Hence, } P_R = \frac{1}{2} I_m^2 \cdot R = \frac{1}{2} 5^2 \cdot 2 = 25 \text{ W}$$

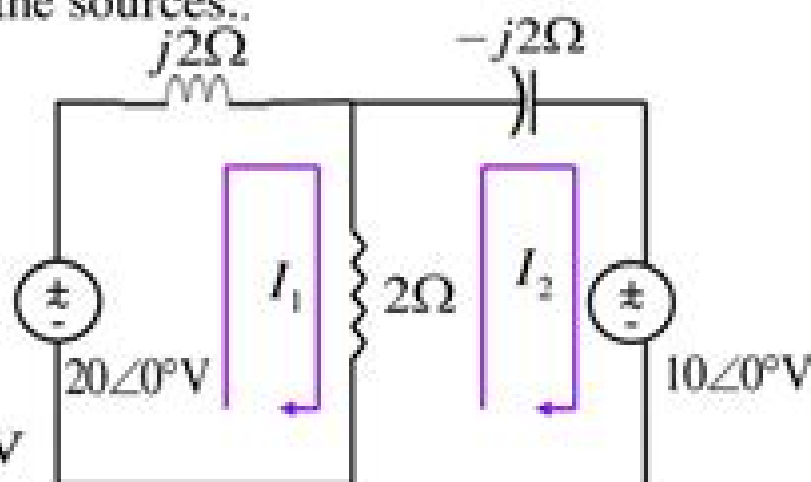
Both  $L$  &  $C$  are reactive elements, and  $P_L = P_C = 0$

For the source on the left mesh

$$\begin{aligned} P_{SL} &= \frac{1}{2} V_{lm} \cdot I_{lm} \cos(0^\circ - (-63.43^\circ)) \\ &= \frac{1}{2} \cdot 20 \cdot 11.18 \cdot \cos 63.43^\circ \\ &= 50 \text{ W} \end{aligned}$$

For the source on the right mesh

$$\begin{aligned} P_{SR} &= \frac{1}{2} V_{2m} \cdot I_{2m} \cos(0^\circ - (-45^\circ)) \\ &= \frac{1}{2} \cdot 20 \cdot 7.071 \cdot \cos 45^\circ \\ &= 25 \text{ W} \end{aligned}$$



The power of the left supplies 50W power and it is absorbed by the resistor and the source on the right

# Eng Circuit Analysis

**William Hart Hayt, Jack Ellsworth  
Kemmerly**



## **Eng Circuit Analysis:**

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der bund naturschutz zum amphibienschutz - Dec 29 2021

web die 19 verschiedenen arten von fröschen kröten molchen und salamandern in bayern nutzen unsere natur in vielfältiger weise amphibienschutz bedeutet deshalb vor allem strukturreiche landschaften und feuchtgebiete zu bewahren aber auch rund um haus und garten können sie amphibien schützen und nicht zuletzt als betreuer von

**landesverband für amphibien und reptilienschutz in bayern e v** - Aug 17 2023



web jul 7 2023 herzlich willkommen beim landesverband für amphibien und reptilienschutz in bayern e v massive schädigungen von amphibien durch glyphosat nachgewiesen 7 juli 2023 dass glyphosat negative auswirkungen auf amphibien zeigt ist bereits seit längerem bekannt

amphibien und reptilien glatt glitschig und genial vielseitig - Jan 30 2022

web jul 11 2013 amphibien und reptilien gehören zu den ältesten bewohnern unseres planeten vor 400 millionen jahren kamen die vorfahren der amphibien aus dem meer an land aus den amphibien entwickelten sich

**amphibien und reptilien in bayern ulmer** - Jun 15 2023

web amphibien und reptilien in bayern dieses buch beschreibt ausführlich die verbreitung die lebensweise und die lebensräume aller 30 in bayern heimischen sowie aller weiteren dort nachgewiesenen amphibien und reptilienarten

**reptilien bund naturschutz in bayern e v** - Feb 28 2022

web helfen sie amphibien und reptilien wir geben ihnen ratschläge was sie in ihrem garten für diese tiere tun können melden sie uns bitte auch große vorkommen von lurchen und reptilien sowie funde seltener arten wie laubfrosch wechselkröte feuersalamander glattnatter und waldeidechse literatur und kontaktadresse

**rote liste und gesamtartenliste der lurche amphibia bayerns** - Apr 01 2022

web die gesamtartenliste der amphibienarten bayerns umfasst 20 arten für die erstellung der vierten fassung der roten liste der amphibien wurden alle 20 arten bewertet die rote liste enthält 12 arten oder 60 und erweist sich damit als überdurchschnittlich gefährdete tiergruppe herausgeber

**neuer amphibien atlas für bayern bund naturschutz** - Oct 07 2022

web nov 22 2019 das zeigt die neu erstellte rote liste gefährdeter tierarten bayerns für die beiden artengruppen ein neuer 800 seiten starker atlas kann dabei helfen dem amphibien und reptilienschutz in bayern einen schub zu geben der bund naturschutz ist einer der herausgeber des atlas 22 11 2019

amphibien und reptilien lbv gemeinsam bayerns natur - Mar 12 2023

web jan 1 2017 die tag und nachtaktive art besiedelt lebensräume mit hohem schwankendem grundwasserstand in bayern ist die art eher lückenhaft verbreitet und gilt als stark gefährdet weiterlesen laubfrosch 01 01 2017

*amphibien in bayern bund naturschutz* - Aug 05 2022

web faszinierend und gefährdet amphibien in bayern amphibien sind wechselwarme tiere sie können also ihre körpertemperatur nicht selbst regulieren und sind von der umgebungstemperatur abhängig das erklärt etwa warum sie an der schwelle von winter zu frühling in großer zahl auf wanderung gehen wenn es draußen wärmer wird

*atlas der amphibien und reptilien bayerns* - Feb 11 2023

web atlas amphibien und reptilien in bayern ein gemeinschaftsprojekt des landesverbandes für amphibien und

reptilienschutz bayern lars mit dem landesbund für vogelschutz lbv dem bund naturschutz in bayern bn

**anliegen natur aktuelle meldungen der zeitschrift für bayern** - Jun 03 2022

web im vergleich zum vorläufer grundkurs amphibien und reptilienbestimmung wurden viele passagen aktualisiert etwa zum chytridpilz ergänzt lebensräume oder erweitert geschlechtererkennung andere abschnitte wie der schlingenfang bei reptilien fehlen jedoch in der neuausgabe

lars e v amphibien und reptilien in bayern - Apr 13 2023

web amphibien und reptilien in bayern in bayern sind inklusive in den letzten 100 jahren ausgestorbener spezies 20 amphibien und 10 reptilien arten heimisch aktuelle oder ehemalige vorkommen weiterer arten beruhen sicher oder sehr wahrscheinlich auf aussetzung alpen kammolch karpatenmolch europäische sumpfschildkröte

**amphibien lfu bayern** - Sep 06 2022

web rundbrief Übersicht natur amphibien auch lurchegenannt sind eine vielfältige artengruppe sie unterteilen sich in drei ordnungen froschlurche schleichlurche und schwanzlurche während schleichlurche nur in tropischen und subtropischen gefilden vorkommen finden sich frosch und schwanzlurcheauch in bayern

**anliegen natur aktuelle meldungen der zeitschrift für bayern** - May 14 2023

web nov 26 2019 hier werden alle in bayern heimischen amphibien und reptilienarten mit aktueller verbreitungskarte ausführlich dargestellt mit zahlreichen fotos grafiken und karten beschreiben diese kapitel detailliert merkmale verbreitung lebensweise lebensräume und bestandsentwicklung der arten

welche reptilien und amphibien wieder vermehrt in münchen - May 02 2022

web jul 5 2022 kreuzottern molche und eidechsen in münchen können einem deutlich mehr reptilien und amphibien begegnen als früher experte markus baur weiß warum das so ist und wie man sich bei