

Exercise 1-1

Chapter 1

Solutions to Exercises within the Chapter

Ex: 1.1 When output terminals are open-circuited, as in Fig. 1.1a:

For circuit a,  $v_{oc} = v_s(t)$   
 For circuit b,  $v_{oc} = 1.00 \times R_2$

When output terminals are short-circuited, as in Fig. 1.1b:

For circuit a,  $i_{sc} = \frac{v_s(t)}{R_1}$   
 For circuit b,  $i_{sc} = I_s(t)$   
 For equivalency  
 $R_1 I_s(t) = v_s(t)$



Figure 1.1a



Figure 1.1b

Ex: 1.2



$v_s = 10 \text{ mV}$   
 $i_{sc} = 10 \text{ } \mu\text{A}$   
 $R_1 = \frac{v_s}{i_{sc}} = \frac{10 \text{ mV}}{10 \text{ } \mu\text{A}} = 1 \text{ k}\Omega$

Ex: 1.3 Using voltage divider:

$v_o(t) = v_s(t) \times \frac{R_2}{R_1 + R_2}$



Given  $v_s(t) = 10 \text{ mV}$  and  $R_1 = 1 \text{ k}\Omega$ .

If  $R_2 = 100 \text{ k}\Omega$   
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1} = 9.9 \text{ mV}$

If  $R_2 = 10 \text{ k}\Omega$   
 $v_o = 10 \text{ mV} \times \frac{10}{10 + 1} = 9.1 \text{ mV}$

If  $R_2 = 1 \text{ k}\Omega$   
 $v_o = 10 \text{ mV} \times \frac{1}{1 + 1} = 5 \text{ mV}$

If  $R_2 = 100 \text{ } \Omega$   
 $v_o = 10 \text{ mV} \times \frac{100}{100 + 1 \text{ K}} = 0.91 \text{ mV}$

For  $v_o = 0.5v_s$ ,

$\frac{R_2}{R_1 + R_2} = 0.5$

Since  $R_1 = 1 \text{ k}\Omega$ ,

$R_2 = 1 \text{ k}\Omega$

Ex: 1.4 Using current divider:



$i_o = I_s \times \frac{R_1}{R_1 + R_2}$

Given  $I_s = 10 \text{ } \mu\text{A}$ ,  $R_1 = 100 \text{ k}\Omega$ .

For  $R_2 = 1 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 1} = 9.9 \text{ } \mu\text{A}$

For  $R_2 = 10 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 10} = 9.1 \text{ } \mu\text{A}$

For  $R_2 = 100 \text{ k}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100}{100 + 100} = 5 \text{ } \mu\text{A}$

For  $R_2 = 1 \text{ M}\Omega$ ,  $i_o = 10 \text{ } \mu\text{A} \times \frac{100 \text{ K}}{100 \text{ K} + 1 \text{ M}}$   
 $= 0.9 \text{ } \mu\text{A}$

For  $i_o = 0.5I_s$ ,  $\frac{100}{100 + R_2} = 0.5$

$\Rightarrow R_2 = 25 \text{ k}\Omega$

# Introduction Electric Circuits 8th Edition Solution Manual

**R Sandford**



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web schwangerschaftsabbruch fakten und intergründe versuche ungewollte schwangerschaften zu been den gibt es in allen kulturen und wahrscheinlich seit anbeginn der menschheit ablehnende positionen zum schwangerschaftsabbruch sind insbesondere mit dem entstehen patriarchaler und monotheistisch geprägter kulturen

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web ein schwangerschaftsabbruch ist nach 218 strafgesetzbuch stgb grundsätzlich rechtswidrig er bleibt aber auf grundlage der sogenannten beratungsregelung unter bestimmten bedingungen straffrei außerdem ist ein schwangerschaftsabbruch auf grundlage einer medizinischen oder einer kriminologischen indikation möglich

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web der schwangerschaftsabbruch traurig und erleichternd zugleich für die meisten frauen ist ein schwangerschaftsabbruch eine entscheidung mit der sie sich intensiv auseinandersetzen häufig ist er mit trauer um den abschied verbunden aber ein stimmiges ereignis in der eigenen lebensgeschichte

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web qualitätsbericht schwangerschaftsabbruchstatistik statistische daten zu schwangerschaftsabbrüchen abtreibungen in deutschland unter anderem pro jahr pro quartal sowie nach grund des abbruchs altersgruppen und bundesländern

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web fakt 1 die anzahl der schwangerschaftsabbrüche in deutschland ist im internationalen vergleich sehr niedrig die anzahl der abbrüche in deutschland ist auf nied rigem niveau konstant seit etwa fünf jahren liegt die anzahl der schwangerschaftsabbrüche in deutschland bei um die 100 000

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web das grundgesetz verpflichtet den staat zum schutz des ungeborenen lebens diesem schutz dienen der 218 und folgende des strafgesetzbuches stgb nach denen der schwangerschaftsabbruch im grundsatz für alle beteiligten eine straftat darstellt wenn jedoch bestimmte voraussetzungen vorliegen ist der schwangerschaftsabbruch

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web 84 8 prozent aller frauen die im jahr 2021 einen schwangerschaftsabbruch durchführen ließen entfielen auf die gruppe der 20 bis unter 40 jährigen dabei hatten die 30 bis unter 35 jährigen mit 24 5 prozent den höchsten anteil 8 3 prozent der frauen waren 40 jahre oder älter darunter 0 02 prozent 50 jahre oder älter

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web feb 15 2022 februar 2022 jede person die schwanger werden kann hat das recht selbst zu entscheiden ob wann und in welchen abständen sie eine schwangerschaft austragen möchte dies wurde bereits an der uno weltbevölkerungskonferenz kairo konferenz von 1994 auf internationaler ebene so festgehalten

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web feb 26 2020 der wunsch nach spätem schwangerschaftsabbruch stellt häufig ein ethisches und moralisches dilemma für alle betroffenen und beteiligten dar schwangerschaftsabbruch aus medizinischer indikation bei einlingsschwangerschaft springerlink

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web nov 3 2023 ein schwangerschaftsabbruch stellt für die betroffene meist eine ausnahmesituation dar dieses kapitel soll

einen leitfaden für den umgang mit einem schwangerschaftsabbruch darstellen fundiertes wissen hilft der schwangeren frau eine überlegte entscheidung zu treffen

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web die gesellschaft die politik und das gesetz müssen anerkennen dass die entscheidung für einen schwangerschaftsabbruch eine sehr individuelle ist die den eigenen körper und das eigene leben betrifft gegebenenfalls auch wichtige fakten über schwangerschaftsabbrüche amnesty - Aug 15 2023

web ein schwangerschaftsabbruch ist ein medizinischer eingriff der eine schwangerschaft beendet es ist eine grundversorgung für millionen von frauen mädchen und anderen die schwanger werden können weltweit endet jedes jahr eine von vier schwangerschaften mit einem schwangerschaftsabbruch

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web die entscheidung für einen schwangerschaftsabbruch kann viele gründe haben manchmal ist es die lebenssituation der eltern die einem kind keinen guten rahmen bietet auch körperliche erkrankungen der mutter können zu der entscheidung für einen schwangerschaftsabbruch führen genauso wie seelische probleme

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web werden der schwangerschaftsabbruch ist einer der häufigsten gynäkologischen eingriffe und das effektivste mittel eine ungewollte schwangerschaft zu beenden der zugang zu dieser essentiellen gesundheitsleistung ist international betrachtet sehr unterschiedlich und wird durch ökonomische und soziale faktoren beeinflusst

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web themen schwangerschaftsabbruch schwangerschaftsabbruch abtreibung sie sind schwanger und erwägen die schwangerschaft abbrechen zu lassen in diesem entscheidungsprozess haben sie möglicherweise viele fragen sie haben aber auch einen anspruch darauf dass sie unterstützung und beratung durch eine

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web im säkularen kontext besagt das menschenwürde argument dass jedem menschlichen leben ungeachtet aller unterschiede hinsichtlich entwicklungsstatus fähigkeiten oder herkunft die gleiche würde und damit derselbe moralische status zukommt abtreibung sei moralisch falsch weil menschliche embryonen angehörige der menschlichen