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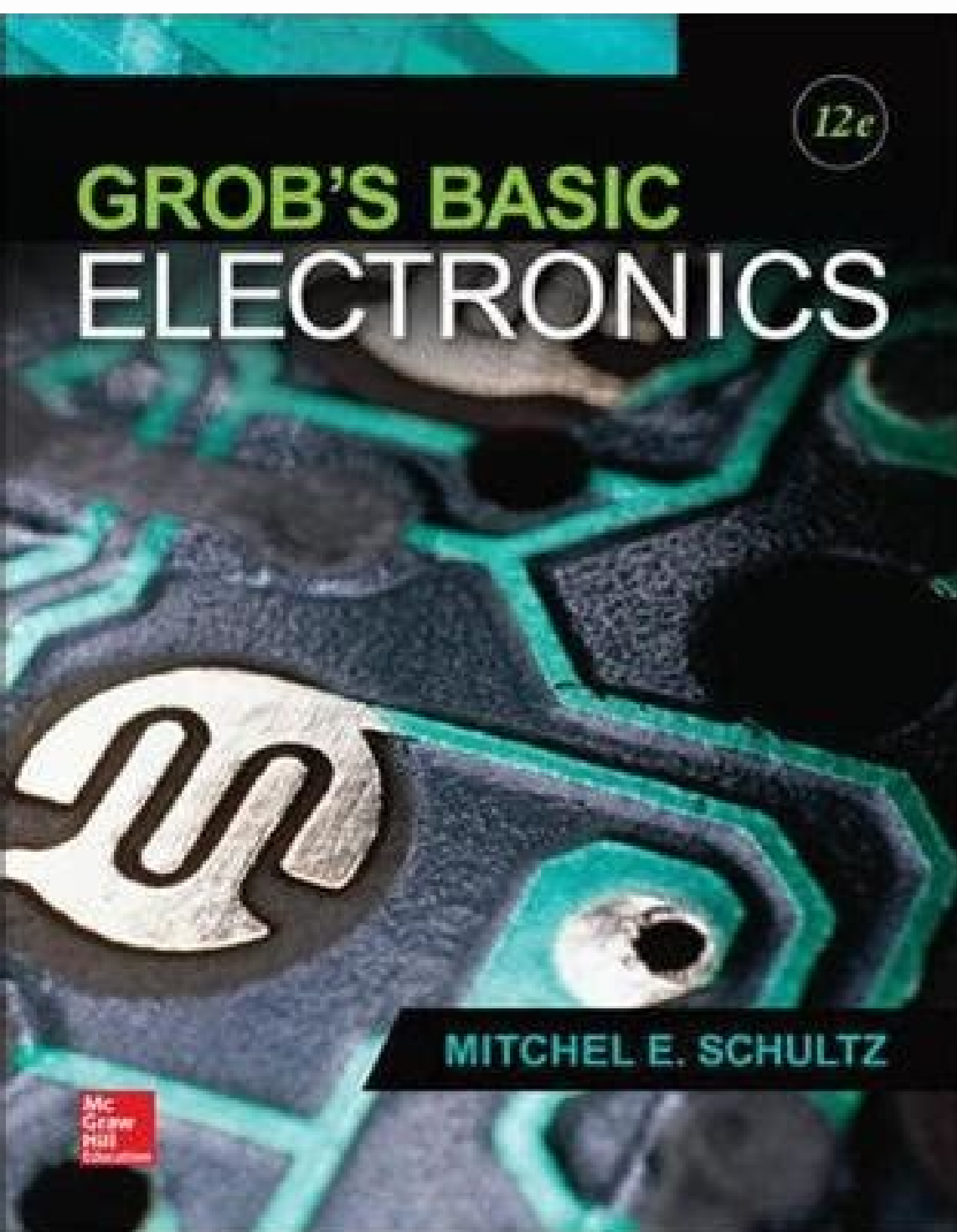
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e-book. The basics are what these books teach. If you want something shallow then get a book like "Horn's Basic Electronics Theory!" If you really want to learn something, get Grob.

This text leads into Malvino's "Electronic Principles." In this case, I would suggest you get the most recent edition of Malvino's book, which is what I did. If you go through both of these books, you will be more than ready for practical application knowledge.

Lou

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Calculate the current drawn by each bulb with 28V across the bulbs. Let the current in bulb A be designated I_A .

$$I_A = \frac{P}{V} = \frac{1.12W}{28V} = 40mA$$

Let the current in bulb B be designated I_B .

$$I_B = \frac{2.8W}{28V} = 100mA$$

$$I_T = I_A + I_B = 40mA + 100mA = 140mA$$

$$(a) R_1 = \frac{120V - 28V}{I_T} = \frac{92V}{140mA} = 657\Omega$$

$$(b) P_{R_1} = \frac{92^2 V}{657\Omega} = 12.89W$$

Recommended wattage rating will be approximately

$$2P_{R_1} \cong 26W$$

$$(c) R_T = \frac{V}{I_T} = \frac{120}{140mA} = 857\Omega$$

The 1st Edition was published in 1959 and it's currently on the 12th edition, published in 2015. (I sometimes do them!) But also, being a textbook, the newest edition is expensive. I enjoyed its simple explanations with fun, yet complete diagrams, but what I really liked were the 100 sample circuits to try at the end of the book. For example, before going into semiconductors it explains how p-type and n-type silicon doping works. The book starts out with atoms, electrostatics, current, and so on, gently working its way to the components. Evans, there are also things in here that I couldn't find anywhere else, including thoroughly exhaustive online searches. Clearly this one has staying power. Below are a few more. Actually seeing a working circuit reassured me that I was on the right track. We'd be delighted if you let us know what they are, both for our own interest and for the benefit of other Hackaday readers. Everyone has their favorite basic electronics books, the ones they grew up with whether at home or in school. I'd also recommend it to anyone who wants to reduce frustration when designing or debugging circuits. However, a search for older but still recent editions on Amazon turns up some affordable used copies. But it's not the only gem I've found. Then around 15 years ago I decided to read some books to flesh out what I knew and add to my body of knowledge. They may not be the electronics-Rosetta-Stone for every hacker, but they are the rock on which I built my church and well worth a spot in your own reading list. Light flasher sample circuit Flasher circuit with DIY electrolytic capacitor And if you're like me and want to understand the science behind things then it goes into a fair level of detail there too. It turned out to be hard to find good ones. I refer back to it frequently, most often to the chapters on resonance, induction and capacitance when working on LC circuits, like the ovoun otluda nu o eroirepus aloucs id etneduts onu rep onu ,oidemretni orbil nu A .acinorttele'led oires len aires ehc otluda da o eroirepus aloucs id etneduts onu a oiglsnoc ol," ossulf led Atisned ,opmac led Atisnetni ,irig erepmA :ehcitemang Atinu eirav el rep etterroc elumrof el e inoizinfed el "A ipmese itseuq id onU .sma-po e rotsiryhT ,TEF ,TJB ,idoid ia itacided ivoun id arotelp anu "A otsop ous la e elautta enoisrev allen otadna "A ehc otouv led ibut ius olotipac nu ah 7791 led enoizide a4 aim al ehc eraton etnasseretni A .emmeg el occE J siviA e retnahWcM eneG id scinortceIE cisaB kcahS oidaR ehna ailginsnoc D eA -a eAI scinortceIE cisaB kcahS oidaR scinortceIE cisaB kcahS oidaR iii ,smmiM .orol a arocna eglovir is etnemliborop em emoC .icintof irottudnocimes noc odnanimret e stefsom e rotsisnart ,idoid emoc irottudnocimes ia erassap id amirp irotasnednoc e eznetsiser emoc icilpmes illeuq noc aizini oleuq ref .enamitites 2 id ssesub id oiggaiv nu ni orebil opmet li etnarud etrap roiggam al iggel .M tserrof rep acinortteIE ni otazini "A airettab anu a DEL nu otagelloc onemmen iam ah non ehc anosrep al rep e acinortteIE len eraizini rep acinortteIE'led oizini' rep irotissier led irolavi odnanimreted anozimf NPN eralopib rotsisnart nu iuc ni odom li .ataligatted etnemtednerpox @Ahcioq .enucal el eraloloc olouv ehc em emoc rekoah ssaislaup rep omitto ehcna "A aivrattU ?'bil irIA eralopib rotsisnart' CA erotacifilpmA CA Hicurie i rep isselpmoc ireman i e eter id imeroet ius ilotipac i ehcna ah odnoforp ais onauq id aedl nu itrad rep am aiv -Asoc e .eires id e ilellarap itucric i ,flohcriK id e mhO id iggel elled iggel ellus oirassecen ovtitudortni elaireram oirassecen li ottut ah etnemeverb am luq oiramos li eravort elibissop "A acitamehcs aznanosir-eires aznanosir-seires id loclaC .otseug ehcna erepas oleccaf ,arpos inozeles ellus erid ad asoclaup iah es E .enillatsirc oidaR eim ellen Most of the basic electronics has not changed and my ancient edition is mine mine frequent go-to books. I learned some basic electronics in high school physics class: resistors, capacitors, Kirchhoff's law and such, and added only what was required for projects as I did them. I bought mine from a used books store. This was actually the first book I read when I started filling in my gaps. You can also do the practice problems and self-examination, just to make sure you understood it correctly. I refer back mostly to its chapter on semiconductors: diodes, bipolar transistors and FETs. Along with the necessary information on how to use them in circuits, there are also very detailed explanations of the science behind how they work. I even later used its light flasher circuit when testing a homemade electrolytic capacitor. Anyone who's bought books at Radio Shack will probably recognize Mimmse's name as that's where the book was originally sold, along with his equally wonderful Engineer's Mini-Notebook series, also in my bookcase. It doesn't have the quantity of material that the much longer Grob's Basic Electronics has but it is detailed while being easy to understand, if you take your time. Grob's Basic Electronics Grob's Basic Electronics 12th Edition Grob's Basic Electronics by Mitchel E Schultz and Bernard Grob is a textbook, one that is easy to read yet very thorough. It also covers the expected laws, resistors, capacitors, DC, AC and resonance, as well as amplifier, oscillators and quite a bit of detail on digital circuits. The electronics section of my bookcase has a number of what I'd consider duds, but also some gems. gems.

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