

SOLVED PROBLEMS IN ELECTRIC ENGINEERING PARKER SMITHSINHALA WAL KATHA SINHALA

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???????????????? ???? ???? ???? ???? ???? ?

1. ??? 5? ?????????????? ?? 10V ?????? ?????????? ???. ?????????? ???? ???? ?? currents ???? ????.

A: ??? ????? ?????? ??????, $I = V/R$: $I = 10V / 5? I = 2A$

2. ?????? ??? ?????? ?? ??? 1 μ F ?????????? ?? 2 μ F ?????????????? ??. ??? ?????????? ?????? ????????? ???? ????.

A: ?????? ??? ?????? ?????????? ?????? ?????????????????? ?????? ???? ??????????: $C = C1 + C2$ $C = 1\mu F + 2\mu F$ $C = 3\mu F$

3. 100Hz ? ?????????? 50mH ?????????? ??. ?????? ?????????? 10?.

A: ?????? ??????????: $X_L = 2\pi fL$ $X_L = 2\pi \cdot 100Hz \cdot 50mH$ $X_L = 31.4?$

4. $V_m = 10V$?????? ?????????????????? ?????? ?????????????? ???? ??. ???? ???? ?????????? ?? ???? ?

A: ???? ?????????? ?????? ?????????????????? ??????: $V_p = V_m/2$ $V_p = 10V/2$ $V_p = 5V$

**5. 50Hz ??????? ?? 220V ??? ??????? ?? ??? ?? ?????????????? ??
????????? ?????? ??? 500 ????? ????? ?????????????? ?? ?????????? ??????
??? ?????? ????? ?????? ?????? ?????? ?????????? ????????? 110V ???**

A: ?????????????? ?? ????????? ??????? ?????? ?? ??????? ?? ?????? ????? ??: $V_1/V_2 = N_1/N_2$ $N_2 = (V_2/V_1) N_1$ $N_2 = (110V/220V) 500$ $N_2 = 250$????

Are LEGO MOCs legal? LEGO-owned IP - images such as Sets/Parts/Minifigs/Instructions are LEGO IP. You may use them, but their usage must adhere to the LEGO copyright rules. MOCs - these materials are owned by the original designer who created the content and uploaded it to Rebrickable. You may not use these images for your own purposes.

What program do people use to make LEGO MOCs? Lego Digital Designer (LDD) It provides users with an intuitive 3D interface where they can drag-and-drop pieces to build their creations, as well as access a library of parts to choose from. As it's made by the LEGO® team, there are plenty of resources available to help get started.

Is there a LEGO app with building instructions? LEGO Builder is a digital LEGO instructions app that will help you and your family build sets better and with more ease than ever before.

How do I upload a MOC to Rebrickable?

What happens if you use an illegal LEGO building technique? These are sometimes call 'illegal' building techniques. You're able to design using 'illegal' techniques in BrickLink Studio if the 'Snap' setting is turned off. Unless we say otherwise in specific challenge rules, all building techniques are allowed and won't result in disqualification.

Can you make money from LEGO MOCs? Marketing Your MOCs: Once you've created your custom LEGO® brick designs, it's time to market them effectively to reach potential buyers. Utilise online platforms such as social media, dedicated LEGO® set marketplaces, and your website or online store to showcase your creations to a global audience.

Is BrickLink owned by LEGO? BrickLink is a wholly owned subsidiary of the LEGO Group and will be managed as a stand-alone team.

What does LEGO MOC stand for? LEGO® MOC, therefore, means LEGO My Own Creation, and are creations that have been designed and built by LEGO fans, using original LEGO® bricks. These creations or MOCs as we call them, serve as proof that with imagination and a few LEGO® bricks, you can build anything!

How to get LEGO parts for MOCs?

How to get lego instructions for free? We've made thousands of LEGO instruction booklets available online. Search by theme or year and you'll find instruction manuals for many of our old and new sets. Download them instantly and you're ready to build!

Does Brickit cost money? Brickit is free and has some paid Pro features and is available on both iOS and Android.

Can I make my own Lego instructions? To get started, simply head to the Bricklink Studio website and sign up for an account. Once you're logged in, you'll be able to access all of the features of the program. To create your first lego building instructions, simply click on the "Create Instructions" button and follow the prompts.

Does Rebrickable cost money? Plans determine the available features and resource limits imposed on each user. Rebrickable will always be Free for everyone, but those who want something extra can help support Rebrickable by upgrading their Plan.

What is the difference between MOC and LEGO building blocks? Are MOC and LEGO Compatible? "Lego" is a Danish toy company that produces plastic building block toys. "MOC" (My Own Creation) refers to Lego models designed and created by players themselves. They are usually modifications or combinations of Lego building blocks, or made according to their own designs.

Does Rebrickable have an app? Rebrickable LEGO Shopper App for Android.

Are LEGO knockoffs legal? Some are, some aren't, it depends. Most of the time, the LEGO clones you see are totally legal, but they do various things to remain legal. And sometimes, they flat-out aren't legal— they just don't get caught. Sellers like Mould King are made in China, which doesn't have strict trademark laws on things like trademark.

Are custom Lego minifigures illegal?

Can you sell moc LEGO? We will work with you to make sure that your design is ready for publishing and sale, as well as set you up in our royalty system. You will choose how much you want to receive per MOC sold, and you will receive just that. No extra/hidden costs. Once your design is up for sale, you don't need to worry anymore.

Are Lego compatible legal? All LEGO compatible bricks are legal. At this point LEGO no longer has a patent on the key features of the LEGO system regarding shape, measurements and connectivity. This doesn't hold true for minifigures, those are still trademarked.

Top Notch 3B English for Today's World: Essential Questions and Answers

What is Top Notch 3B English for Today's World?

Top Notch 3B English for Today's World is a comprehensive English language learning course designed for upper-intermediate learners. It focuses on developing fluency, accuracy, and vocabulary in both spoken and written English. The course includes a textbook, workbook, audio CDs, and online resources.

Who can benefit from Top Notch 3B?

Top Notch 3B is suitable for students who have completed Top Notch 3A or who have achieved an upper-intermediate level of English proficiency. It is ideal for students who need to improve their English communication skills for academic, professional, or personal use.

What are the key features of Top Notch 3B?

Top Notch 3B features:
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- Engaging and authentic materials that reflect real-world communication situations
- Focus on developing fluency, accuracy, and vocabulary
- Integrated grammar and vocabulary instruction
- Extensive practice opportunities with speaking, listening, reading, and writing activities
- Online resources that provide additional practice and support

What are some of the topics covered in Top Notch 3B?

Top Notch 3B covers a wide range of topics, including:

- Business communication
- Travel and tourism
- The environment
- Health and wellness
- Current events
- Personal values and beliefs

Where can I find more information about Top Notch 3B?

For more information about Top Notch 3B English for Today's World, you can visit the Pearson website or consult with a qualified English language instructor. The course materials are available for purchase at major bookstores and online retailers.

Split Type Air Conditioners: A Ductless Solution for Your Cooling Needs

Q: What are split type air conditioners? A: Split type air conditioners consist of two units: an outdoor condenser and an indoor air handler. The condenser is installed outside the building, while the air handler is mounted inside. Refrigerant lines connect the two units, allowing the refrigerant to circulate and cool the air.

Q: What are the benefits of ductless air conditioners? A: Ductless air conditioners offer several advantages:

- **Zone control:** Each air handler can be independently controlled, allowing you to adjust the temperature in each room as needed.
- **Energy efficiency:** Without ducts, there is less air leakage and heat loss, resulting in higher energy efficiency.
- **Flexibility:** Ductless air conditioners can be installed in any room, regardless of its layout or the presence of ducts.
- **Quiet operation:** The outdoor condenser is located outside, minimizing noise inside the building.

Q: How are ductless air conditioners installed? A: Installation typically involves mounting the outdoor condenser on a wall or roof, drilling a hole through the wall for the refrigerant lines, and installing the indoor air handler on a wall. The installation process can be completed in a day or two.

Q: What is the maintenance required for ductless air conditioners? A: Proper maintenance is essential for optimal performance and longevity. Regular tasks include:

- **Changing air filters:** Every 1-2 months during peak usage.
- **Cleaning the condenser coils:** Annually using a soft brush or vacuum cleaner.
- **Inspecting the refrigerant lines and electrical connections:** Periodically for any leaks or damage.

Q: Are ductless air conditioners expensive? A: The cost of ductless air conditioners varies depending on the size of the system, the number of air handlers, and the brand. However, they are generally more cost-effective than installing a central AC system with ducts, especially in spaces where ductwork is impractical or expensive.

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