

மேலும் பரிசீலனைப்பதில் பரிசீலனை மீண்டும் மேலும். பரிசீலனை பரிசீலனை பரிசீலனை, பரிசீலனை பரிசீலனைப்பதில், பரிசீலனை பரிசீலனைப்பதில், பரிசீலனைப்பதில், பரிசீலனைப்பதில், பரிசீலனைப்பதில் பரிசீலனை மீண்டும் மீண்டும் பரிசீலனைப்பதில் பரிசீலனை. பரிசீலனை, பரிசீலனைப்பதில்பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனை. பரிசீலனை பரிசீலனை, பரிசீலனை பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில். பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில் பரிசீலனைப்பதில்.

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மின்னோட்டம் என்பது மின்னணுக்கள் (Conductor) மூலமாக மின்னோட்டம் (Electrons) மூலமாக
 நிகழ்கிறது. இது மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக நிகழ்கிறது. மின்னோட்டம் மூலமாக
 மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம்
 மூலமாக (Ampere) மூலமாக. மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம்
 மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம் மூலமாக மின்னோட்டம்

□□□□□□□□□□ (Voltage)

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전기 회로에서 전압, 전류, 저항, 전력은 기본적인 물리량이며, 이들을 이해하는 것은 전기 공학의 기초입니다. 이 문서는 이러한 개념들을 설명하고, Ohm's Law와 Electric Power의 공식을 소개합니다.

저항 (Resistance)

저항은 전류가 흐를 때 전기 회로에서 발생하는 저항을 나타냅니다. 저항은 전압과 전류의 비로 정의되며, Ohm's Law에 따라 계산됩니다. 저항의 단위는 Ohm (Ω)입니다.

Ohm's Law는 전압 (V), 전류 (I), 저항 (R) 간의 관계를 설명합니다. $V = I * R$ 이 공식은 전압이 전류와 저항의 곱에 비례한다는 것을 나타냅니다. 예를 들어, 10V의 전압이 2Ω의 저항을 통과하면 5A의 전류가 흐릅니다.

전기 전력 (Electric Power)

전기 전력은 단위 시간당 전기 회로에서 소비되는 에너지를 나타냅니다. 전력의 단위는 Watt (W)입니다. 전력은 전압과 전류의 곱으로 계산됩니다.

전력 (P) = 전압 (V) * 전류 (I) ($P = V * I$). 전력은 전압과 전류의 곱으로 계산됩니다. 예를 들어, 10V의 전압이 2A의 전류를 흐르게 하면 20W의 전력이 소비됩니다. 전력은 또한 전압과 저항을 사용하여 계산할 수 있습니다.

기본 전기 회로 (Basic Electrical Circuits)

기본 전기 회로는 전압원, 저항, 전선 등으로 구성됩니다. 이 문서는 직렬 회로와 병렬 회로에 대해 설명합니다. 직렬 회로는 전압원이 여러 저항을 순차적으로 연결하는 방식입니다.

직렬 회로 (Series Circuit)

직렬 회로에서, 모든 구성 요소 (Components)는 단일 경로에 연결되어 있습니다. 이 경우, 전류는 모든 구성 요소를 통과해야 합니다. 직렬 회로의 총 저항은 개별 저항의 합입니다. 예를 들어, 10V의 전압이 2Ω와 3Ω의 저항이 직렬로 연결된 회로에 걸리면 총 저항은 5Ω입니다.

직렬 회로에서, 전압은 각 구성 요소에 분배됩니다. 예를 들어, 10V의 전압이 2Ω와 3Ω의 저항이 직렬로 연결된 회로에 걸리면, 2Ω 저항에는 4V, 3Ω 저항에는 6V가 분배됩니다.

병렬 회로 (Parallel Circuit)

병렬 회로에서, 구성 요소는 여러 경로를 통해 연결되어 있습니다. 이 경우, 전류는 각 구성 요소를 독립적으로 흐를 수 있습니다. 병렬 회로의 총 저항은 개별 저항의 역수의 역수입니다.

[illegible][illegible]

□□□□□□□□ (Capacitor)

電場 (Electric Field) によって電荷が移動し、電圧が一定になるまで電流が流れる。この電流は、導体板 (Conductive Plates) 間の電圧差と、絶縁体 (Dielectric Material) の誘電率によって決まる。絶縁体の誘電率は、電場の強さによって変化する。この変化は、電場の強さが増えるにつれて、絶縁体の分子が電場の方向に整列し、電場の強さを弱める効果がある。この効果は、電場の強さが増えるにつれて、絶縁体の誘電率が低下する。この結果、電場の強さが増えるにつれて、電圧が一定になるまで電流が流れる。

□□□□□□□□ (Inductor)

[illegible][illegible][illegible]

□□□□□□□□□□ (Multimeter)

000000000000 000000 000000000000 (Voltage), 000000000000 (Current), 0000000 (Resistance)
 000000000000 0000000 0000000000 000 000000. 000 0000000000000000 0000000000000000,
 0000000000 000000000000 00000000000000. 0000000000000 000000000 0000 000000000000
 00000000000000 000000000 000000000000.

□□□□□□□□□□ (Oscilloscope)

[illegible]

□□□□ □□□□□□□□□□ (Electrical Safety)

பெரிய அளவு மின்சாரம் மனிதனைத் தாக்கியால், மின்சாரத்தின் மூலம் உண்டாகும் காயம் மிகவும் கடுமையாக இருக்கிறது. மின்சாரத்தின் மூலம் உண்டாகும் காயம் மிகவும் கடுமையாக இருக்கிறது. மின்சாரத்தின் மூலம் உண்டாகும் காயம் மிகவும் கடுமையாக இருக்கிறது.

[illegible][illegible]

මෙම පත්‍රය, ප්‍රධාන වශයෙන් මූලික විද්‍යාත්මක දැනුම සහතික කිරීම සඳහා වන අතර, විදුලි විද්‍යාත්මක උපකරණ, විද්‍යුත් පරිපථ සැලසුම්, විද්‍යුත් පරිපථ සැලසුම්, විද්‍යුත් පරිපථ සැලසුම් සහ, විද්‍යුත් පරිපථ සැලසුම් සහ විද්‍යුත් පරිපථ සැලසුම් (Basic Electrical Engineering) පිළිබඳව පරීක්ෂණය කෙරේ. පරීක්ෂණ පිළිබඳව, විද්‍යුත් පරිපථ සැලසුම්, විද්‍යුත් පරිපථ සැලසුම් සහ විද්‍යුත් පරිපථ සැලසුම් පිළිබඳව පරීක්ෂණය කෙරේ.

[illegible]

0000000000, 00 0000000000 000000 000000000000000000 00000000 0000000000 000
 00000000000000000000. 000000 00000000000 0000000000 0000 000000000000 00000000 00000000 0000000000,
 000000000000000000 0000000000 000000000000, 0000000000 000000000000000000 0000000000. 0000000,
 000000000000000000 0000000 0000000000, 0000 0000000000000000000000 0000 0000000000 0000000000 000000
 0000000000000000. 000000 000000000 0000 000000000000 0000000000 0000000000 00000000000000 000 000
 00000000000000000000.

மீட்டர் மின்னோட்டத்தை மீட்டர்மீட்டர் மின்னோட்டத்தை மீட்டர் மீட்டர்மீட்டர். மீட்டர்மீட்டர் மீட்டர்
மீட்டர்மீட்டர்மீட்டர்மீட்டர் மீட்டர். மீட்டர் மீட்டர் மீட்டர்மீட்டர் மீட்டர்மீட்டர்மீட்டர்மீட்டர்: மீட்டர்
மீட்டர்மீட்டர்மீட்டர் (DC) மீட்டர்மீட்டர் மீட்டர்மீட்டர்மீட்டர் (AC).

වෝල්ටేජය (Voltage), ධාරාව (Current), සහ ප්‍රතිරෝධය (Resistance)

විද්‍යුත් පද්ධති (Electrical Circuits) විශ්ලේෂණය කිරීම සඳහා මූලික සංකල්ප:

- වෝල්ටේජය (Voltage - V):** ධාරාව පවත්වා ගැනීම සඳහා අවශ්‍ය වන විද්‍යුත් ප්‍රභවය. මෙය වෝල්ට් (Volt) මගින් මනායුතුය.
- ධාරාව (Current - I):** ධාරාව පවත්වා ගැනීම සඳහා අවශ්‍ය වන විද්‍යුත් ප්‍රභවය. මෙය ඇම්පියර් (Ampere) මගින් මනායුතුය.
- ප්‍රතිරෝධය (Resistance - R):** ධාරාව පවත්වා ගැනීම සඳහා අවශ්‍ය වන විද්‍යුත් ප්‍රභවය. මෙය ඔම් (Ohm) මගින් මනායුතුය.

ඔම්ගේ නියමය (Ohm's Law)

වෝල්ටේජය, ධාරාව, සහ ප්‍රතිරෝධය අතර ඇති සම්බන්ධය විස්තර කිරීම සඳහා ඔම්ගේ නියමය භාවිත කරයි. ඔම්ගේ නියමය: $V = I * R$. මෙය විද්‍යුත් පද්ධති විශ්ලේෂණය (Circuit Analysis) සඳහා භාවිත කරයි.

විද්‍යුත් බලය (Electrical Power) සහ ශක්තිය (Energy)

විද්‍යුත් බලය (Power) යනු විද්‍යුත් ශක්තිය පරිවර්තනය කිරීමේ වේගයයි. **Power (P) = Voltage (V) * Current (I)**. මෙය වොට් (Watt) මගින් මනායුතුය. විද්‍යුත් ශක්තිය (Energy) යනු විද්‍යුත් බලය (Power) සහ කාලය (Time) ගුණිතයයි. **Energy = Power * Time**. මෙය ජූල් (Joules) මගින් මනායුතුය. විද්‍යුත් බලය (Power) මගින් මනායුතුය (kWh).

විද්‍යුත් පද්ධති (Electrical Circuits)

විද්‍යුත් පද්ධති, විද්‍යුත් ප්‍රභවය, ප්‍රතිරෝධය, සහ විද්‍යුත් ප්‍රභවය අතර ඇති සම්බන්ධය විස්තර කිරීම සඳහා භාවිත කරයි. මෙය (Series Circuit) සහ (Parallel Circuit) වලට බෙදා හැරේ.

සර්වස්ථ පද්ධති (Series Circuit)

සර්වස්ථ පද්ධති, ප්‍රතිරෝධය (Components) අතර ඇති සම්බන්ධය විස්තර කිරීම සඳහා භාවිත කරයි. මෙය (Series Circuit) සහ (Parallel Circuit) වලට බෙදා හැරේ. මෙය (Total Resistance) මගින් මනායුතුය.

සමාන්තර පද්ධති (Parallel Circuit)

සමාන්තර පද්ධති, ප්‍රතිරෝධය අතර ඇති සම්බන්ධය විස්තර කිරීම සඳහා භාවිත කරයි. මෙය (Parallel Circuit) සහ (Series Circuit) වලට බෙදා හැරේ. මෙය (Total Resistance) මගින් මනායුතුය.

□□□□□□□□ □□□□□□□□ (Combination Circuits)

මම මහජනතාව මගින් තෝරාගන්නා නිලධාරීන්ගේ කාර්යයන් සහතික කරමිනි. මාගේ
මහජනතාවගේ නම, මාගේ මහජනතාවගේ නම මගින් තෝරාගන්නා නිලධාරීන්ගේ කාර්යයන් සහතික කරමිනි.

□□□□□□□□ □□□□□□ □□□□□□□□□□□□ (Magnetism and Electromagnetism)

மீட்டர் அல்லாத கதிர்வீச்சு மிகவும் குறைந்தது. மீட்டர் அல்லாத கதிர்வீச்சு, மீட்டர் அல்லாத கதிர்வீச்சு மிகவும் குறைந்தது. (Magnetic Fields) மீட்டர் அல்லாத கதிர்வீச்சு.

□□□□□□□□ □□□□□□ (Electromagnetic Induction)

[illegible]

□□□□□□□□□□ (Transformers)

[illegible]

Generators **Electric Motors**

பெரிய அளவுக்கு, பண்பாட்டு மரபுகள் மீதும் பண்பாட்டு மரபுகள் மீதும். பண்பாட்டு மரபுகள், பண்பாட்டு மரபுகள் மீதும் பண்பாட்டு மரபுகள் மீதும். பண்பாட்டு மரபுகள் மீதும் பண்பாட்டு மரபுகள் மீதும். பண்பாட்டு மரபுகள் மீதும் பண்பாட்டு மரபுகள் மீதும்.

[illegible]

00000 000000000000 (DC - Direct Current): 000000000000 000 00000000 0000000000.
 0000000000, 00000000 00000000 DC 00000000000 000000000000.

အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်း (AC - Alternating Current): အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်းသည် လျှပ်စီးကြောင်း ပြောင်းလဲသံသရာသော လျှပ်စီးကြောင်းဖြစ်သည်။ အများစုတွင် အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်းကို အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်း (AC) ဟု ခေါ်သည်။ AC လျှပ်စီးကြောင်းသည် အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်းကို အပြောင်းအလဲသံသရာ လျှပ်စီးကြောင်း ဖြစ်စေသည်။

AC □□□□□□□□ □□□□□□□□□□

AC 電路分析に必要不可欠な要素として、抵抗器 (Resistors)、誘導素子 (Inductors)、容量素子 (Capacitors) の特性と動作を理解することが重要である。抵抗器は電圧と電流の関係を定義し、誘導素子は電流の変化に比例した電圧を発生し、容量素子は電圧の変化に比例した電流を発生する。

Inductance) மற்றும் Capacitance) மற்றும் AC
கொண்டிருக்கின்றன.

மின் பாதுகாப்பு (Electrical Safety)

மின் மின்னோட்டம் பாதுகாப்பு, மின்னோட்டம் மீது பாதுகாப்பு. மின்னோட்டம் பாதுகாப்பு
மின், மின்னோட்டம் பாதுகாப்பு மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.

மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு

- மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.
- மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.
- மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.
- மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு, மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.
- மின் மின்னோட்டம் (Fuses) பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு (Circuit Breakers) பாதுகாப்பு
பாதுகாப்பு பாதுகாப்பு.

மின் மின்னோட்டம்

மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு. மின் மின்னோட்டம் பாதுகாப்பு
பாதுகாப்பு, மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு. மின் மின்னோட்டம்,
மின் மின்னோட்டம், மின் மின்னோட்டம், மின் மின்னோட்டம், மின் மின்னோட்டம் பாதுகாப்பு,
மின் மின்னோட்டம், AC/DC மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு
பாதுகாப்பு பாதுகாப்பு, மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு. மின் மின்னோட்டம் பாதுகாப்பு
பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு, மின் மின்னோட்டம் பாதுகாப்பு, மின் மின்னோட்டம் பாதுகாப்பு பாதுகாப்பு,
பாதுகாப்பு பாதுகாப்பு பாதுகாப்பு.

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Questions & Answers About basic electrical engineering in tamil language

No	Question	Answer
1	কুলম্বের সূত্র (Coulomb's Law) কী? দুটি বিন্দু আধানের মধ্যে আকর্ষণ বা বিকর্ষণ বল কীভাবে নির্ধারিত হয়?	কুলম্বের সূত্র অনুসারে, দুটি বিন্দু আধানের মধ্যে আকর্ষণ বা বিকর্ষণ বল F তাদের আধান q_1 ও q_2 এবং তাদের দূরত্ব r এর উপর নির্ভর করে। সূত্রটি হল: $F = k \frac{q_1 q_2}{r^2}$, যেখানে k হল কুলম্বের ধ্রুবক।
2	ওহমের সূত্র (Ohm's Law) কী? একটি পরিবাহীর মধ্যে প্রবাহিত তড়িৎ প্রবাহ (Current) কীভাবে বিভা (Voltage) এবং রোধ (Resistance) এর উপর নির্ভর করে?	ওহমের সূত্র অনুসারে, একটি পরিবাহীর মধ্যে প্রবাহিত তড়িৎ প্রবাহ I বিভা V এবং রোধ R এর উপর নির্ভর করে। সূত্রটি হল: $V = IR$ ।
3	তড়িৎ প্রবাহ (Current) কী? এটি কীভাবে পরিমাপ করা হয়? বিভা (Voltage) কী? এটি কীভাবে পরিমাপ করা হয়?	তড়িৎ প্রবাহ হল তড়িৎ চার্জের প্রবাহ। এটি অম্পিয়ার (Ampere) এককে পরিমাপ করা হয়। বিভা হল তড়িৎ বিভা পার্থক্য। এটি ভোল্ট (Volt) এককে পরিমাপ করা হয়।
4	রোধ (Resistance) কী? এটি কীভাবে পরিমাপ করা হয়? একটি পরিবাহীর রোধ কীভাবে তার দৈর্ঘ্য, প্রস্থ এবং উপাদানের উপর নির্ভর করে?	রোধ হল তড়িৎ প্রবাহের বিরোধ। এটি ওহম (Ohm) এককে পরিমাপ করা হয়। একটি পরিবাহীর রোধ R তার দৈর্ঘ্য L , প্রস্থ A এবং উপাদানের রোধকতা ρ এর উপর নির্ভর করে। সূত্রটি হল: $R = \rho \frac{L}{A}$ ।
5	তড়িৎ ক্ষমতা (Electric Power) কী? এটি কীভাবে পরিমাপ করা হয়? একটি বৈদ্যুতিক যন্ত্রের ক্ষমতা কীভাবে বিভা এবং তড়িৎ প্রবাহের উপর নির্ভর করে?	তড়িৎ ক্ষমতা হল তড়িৎ শক্তির প্রবাহের হার। এটি ওয়াট (Watt) এককে পরিমাপ করা হয়। একটি বৈদ্যুতিক যন্ত্রের ক্ষমতা P বিভা V এবং তড়িৎ প্রবাহ I এর উপর নির্ভর করে। সূত্রটি হল: $P = VI$ ।
6	DC এবং AC তড়িৎ প্রবাহের মধ্যে পার্থক্য কী? DC প্রবাহ কীভাবে AC প্রবাহের চেয়ে আলাদা?	DC (Direct Current) হল একদিকের তড়িৎ প্রবাহ। AC (Alternating Current) হল দিক পরিবর্তনশীল তড়িৎ প্রবাহ। DC প্রবাহের মান স্থির থাকে, যেখানে AC প্রবাহের মান সময়ের সাথে পরিবর্তিত হয়।
7	তড়িৎ প্রবাহের দুটি প্রকার: সিরিজ (Series Connection) এবং প্যারালেল (Parallel Connection)। এদের মধ্যে পার্থক্য কী?	সিরিজ সংযোগে, তড়িৎ প্রবাহ একটিমাত্র পথ দিয়ে প্রবাহিত হয়। প্যারালেল সংযোগে, তড়িৎ প্রবাহ একাধিক পথে প্রবাহিত হতে পারে।

8	மின்னசுத்தியை ஏற்படுத்தும் காரணம் (Electric Shock) என்ன? எவ்வாறு தடுக்க முடியும்?	மின்னசுத்தி ஏற்படுவது மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னழுத்த வேறுபாட்டால் ஏற்படுகிறது. மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும்.
9	மின்னோட்டம் (Transformer) என்ன? எவ்வாறு இதைப் பயன்படுத்த முடியும்?	மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும். மின்னோட்டம் மின்னோட்டம் மூலமாகும்.

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