

# ELECTRICITY & MAGNETISM

## ELECTRICITY BASICS

### FUNDAMENTAL TERMS

**Potential difference (V or E):**  
Charges interacting with each other to do work by attraction or repulsion • Unit: volt (V)

**Electric charge (Q or q):**  
Unit of electricity • Unit: coulomb (C)

**Electric current (I):**  
Measure of electron flow • Unit: ampere (A)

**Resistance (R):**  
Measure of opposition to current flow  
• Found from Ohm's Law,  $R = V/I$   
• Unit: ohm ( $\Omega$ )

**Electric energy (E):**  
 $E = VI = Pt$  • Unit: joule (J), electron-volt (eV)

**Electric power (P):**  
Rate of electric energy •  $P = VI$ , or  $P = I^2R$ ,  
or  $P = E/t$  • Unit: watt (W) or J/s, horsepower (hp)

**Frequency (f):**  
Cycles/second •  $f = 1/T$   
• Unit: hertz (Hz or  $s^{-1}$ )

**Capacitance (C):**  
Ability to store electric charge  
• Unit: farad (F)

**Inductance (L):**  
Ability of a conductor to induce voltage in itself when the current changes  
• Unit: henry (H)

**Capacitive reactance ( $X_C$ ):**  
Opposition to flow of AC current due to capacitance in circuit •  $X_C = 1/(2\pi fC)$   
• Unit: ohm ( $\Omega$ )

**Inductive reactance ( $X_L$ ):**  
Opposition to flow of AC current due to inductance in circuit •  $X_L = 2\pi fL$   
• Unit: ohm ( $\Omega$ )

**OHM'S LAW**  
•  $V = IR$   
•  $I = V/R$   
•  $E = I^2R$

**POWER TRIANGLE**  
•  $P = VI$   
•  $V = P/I$   
•  $I = P/V$

**WATTAGE**  
•  $P = VI$   
•  $V = P/I$   
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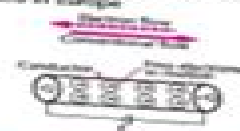
**WATTAGE**  
•  $P = VI$   
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## ELECTRIC CIRCUITS

### CIRCUIT SYMBOLS FOR SCHEMATIC DIAGRAMS


### CURRENT FLOW

• Conventional flow is used in North America, current flow is used in Europe



### ELECTRIC POTENTIAL ENERGY

- Energy between two point charges separated a distance,  $r$  (or  $d$ )
- (1)  $V_e$  is electric potential energy,  $V_e = kq_1q_2/r$
- (2)  $k$  is Coulomb's constant
- (3)  $q_1$  &  $q_2$  are point charges
- (4) For like charges,  $V_e$  is positive for a finite distance  $r$

# Electricity Magnetism Permacharts

**James Clerk Maxwell**



## **Electricity Magnetism Permcharts:**

**Water Works & Sewerage** ,1936      **Municipal and County Engineering** ,1938      **Electricity and Magnetism: a Popular Introduction** S. R. Bottone,1893      **Models** ,1984      **A Treatise on Electricity and Magnetism** Éleuthère Élie Nicolas Mascart,Jules François Joubert,1883      **Fundamentals of Electricity & Magnetism** Leonard B. Loeb,2007-03

PREFACE THE Author of this very practical treatise on Scotch Loch Fishing desires clearly that it may be of use to all who had it He does not pretend to have written anything new but to have attempted to put what he has to say in as readable a form as possible Everything in the way of the history and habits of fish has been studiously avoided and technicalities have been used as sparingly as possible The writing of this book has afforded him pleasure in his leisure moments and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general This section is interleaved with blank sheets for the readers notes The Author need hardly say that any suggestions addressed to the case of the publishers will meet with consideration in a future edition We do not pretend to write or enlarge upon a new subject Much has been said and written and well said and written too on the art of fishing but loch fishing has been rather looked upon as a second rate performance and to dispel this idea is one of the objects for which this present treatise has been written Far be it from us to say anything against fishing lawfully practised in any form but many pent up in our large towns will bear us out when we say that on the whole a days loch fishing is the most convenient One great matter is that the loch fisher is dependent on nothing but enough wind to curl the water and on a large loch it is very seldom that a dead calm prevails all day and can make his arrangements for a day weeks beforehand whereas the stream fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river it is quite another matter to arrange for a days river fishing if one is looking forward to a holiday at a date some weeks ahead Providence may favour the expectant angler with a good day and the water in order but experience has taught most of us that the good days are in the minority and that as is the case with our rapid running streams such as many of our northern streams are the water is either too large or too small unless as previously remarked you live near at hand and can catch it at its best A common belief in regard to loch fishing is that the tyro and the experienced angler have nearly the same chance in fishing the one from the stern and the other from the bow of the same boat Of all the absurd beliefs as to loch fishing this is one of the most absurd Try it Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy or even a cast similar to those which a crack may be using and if he catches one for every three the other has he may consider himself very lucky Of course there are lochs where the fish are not abundant and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught and where each has a fair chance Again it is said that the boatman has as much to do with catching trout in a loch as the angler Well we dont deny that In an untried loch it is necessary to have the guidance of a good boatman but the same

argument holds good as to stream fishing      Electricity and General Magnetism John Frederick Kemp, Peter Young, 1966  
**Electricity and Magnetism for Engineers** Harold Pender, 1919      **Electricity and Magnetism for Advanced Students** Sydney George Starling, 1924      *Electricity And Magnetism* , 1903      **Let's Explore Electricity and Magnetism** Karin Underwood, Heather Monaghan, 1990      **A Treatise on Electricity and Magnetism** James Clerk Maxwell, Joseph John Thompson (1856-1940, ed), 1892      **Treatise on Electricity and Magnetism** James Clerk Maxwell, 2019  
*Electricity and Magnetism* Francis Weston Sears, 1962      **Hand-book To Diagrams In Magnetism & Electricity. Sheet No.1 (-4)** William Lees, 2025-05-22 Hand book To Diagrams In Magnetism Electricity is a collection of diagrams related to the study of electromagnetism Compiled by William Lees this handbook provides visual aids for understanding the principles and phenomena associated with magnetism and electricity The diagrams are presented in a series of sheets numbered 1 through 4 offering a structured approach to learning and reference This resource is useful for students educators and anyone interested in gaining a clearer understanding of these fundamental scientific concepts through visual representation This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      *Second Stage Magnetism & Electricity ...* Robert Wallace Stewart, 1905      Practical Exercises in Magnetism and Electricity Harry Edwin Hadley, 1928      Outlines of Electricity and Magnetism Charles A. Perkins, 2019      *Hand-book to Diagrams in Magnetism & Electricity* William Lees (M.A.), 1880      Electricity's Silent Partner, Magnetism Colorado State University. Cooperative Extension Service, 1978

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