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[illegible]

Charge, Contact and Micrograph Contact Law.

The old account of electricity dealt you about
two years ago, when it was advanced that
electric charge of a piece of matter was a sign
of something very slight, deeper, such as Graham.

The word electricity originated about 1600
to mean the power which was the ancient
Greek word for motion.

Algebra, Arithmetic, Invariant Cu-235 battery.

Electric current is defined as the rate of
flow of electric charge. It is a scalar
quantity.

The fundamental electric charge is the
charge on an electron. It is denoted by e .

The charge carried by a body is denoted by Q .

$Q = n e$

Electric current is defined as the rate of
flow of charge passing through a cross-section
area.

$$I = \frac{dQ}{dt} = \frac{d(n e)}{dt} = n e \frac{dn}{dt}$$

It is to be noted that in a cylindrical conductor
the current is uniform and constant the current density
is the same.

Let's consider a cylindrical conductor of length l and
cross-sectional area A . The number of free electrons
per unit volume is n . The total number of free
electrons in the conductor is $N = n A l$.

Set →

- Elements are enclosed in curly braces {}.
- Set is denoted by capital letters.
- Elements are separated by commas.

E.g.: $A = \{1, 2, 3\}$ $B = \{a, b\}$

$|A| \rightarrow$ No of elements in set A, Here $|A| = 3$.

Relation \rightarrow A relation is a subset of $A \times B$

$$A \times B = (\text{Element from A set, Element from B set})$$

This is called ordered pair.

- $$\therefore a \times b \neq b \times a$$

$$n. a \times b = -(b \times a)$$

$$A = \{1, 2, 3\} \quad B = \{a, b\}$$

$$A \times B = \{(1, a), (1, b), (2, a), (2, b), (3, a), (3, b)\}$$

- If there are n element/ordered pair in a set then there will be 2^n subset.
Note:- ϕ is also a subset.

Note:- ϕ is also a subset.

- By definition, $R_1 \subseteq A \times B$

e.g., $R_1 = \{(1, a), (1, b)\}$

$$R_2 = \{ (3, 6) \}$$

- If a set has m elements and a set has n elements then No of relation are 2^{mn} .

$$|A \times B| = |B \times A|$$

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MFC : Mathematical foundation of computer science
(Discrete Maths - DM)

What is logic?

Logic is the study of a reasoning, it is concerned with whether reasoning is correct.

Proposition :

A sentence that is either true or false, but not the both is called proposition.

These are the building block of any theory of logic. We use alphabets to represent proposition.

We use colon (:) notation.

p : Today is Sunday \Rightarrow TRUE

r: This is January \Rightarrow FALSE

We combine propositions using connectives.

	Symbol	
1.	\neg, \neg, N, \bar{x}	Negative (NOT) $\neg p, \bar{r}$
2.	\wedge	Conjunction (AND) $p \wedge r$
3.	\vee	Conjunction (OR) $p \vee r$
4.	\rightarrow	Implication (if... then) $p \rightarrow r$
5.	\leftrightarrow	Double implication (if and only if) (iff) $(p \leftrightarrow r)$

TRUTH TABLE :

1 -	NOT
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P	\bar{P}
T	F
F	T

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