

Unit of Electric Charge

Understanding electric charge

- Objects can have positive (+) or negative (-) charge
- Positive charge \rightarrow fewer electrons than usual
- Negative charge \rightarrow more electrons than usual

Coulomb (C): Standard unit of charge

Why Coulomb? Since individual electrons have a tiny charge a more practical unit is needed.

Coulomb is the standard unit of charge in SI system.

What is one Coulomb?

- It is charge carried by about 6.25×10^{18} electrons
- +1 C means a deficit of this many electrons
- Charge on an electron
 $-1.6 \times 10^{-19} \text{ C}$
 \rightarrow negative sign reflects polarity

Relationship to current

1 C = charge carried by one ampere of current in 1 second.

C \rightarrow Symbol for Coulomb

Subunits

millicoulomb: $1 \text{ mC} = 10^{-3} \text{ C}$

microcoulomb: $1 \mu\text{C} = 10^{-6} \text{ C}$

nanocoulomb: $1 \text{ nC} = 10^{-9} \text{ C}$

picocoulomb: $1 \text{ pC} = 10^{-12} \text{ C}$

Other Units of Charge

- ① Electrostatic unit of charge also known as statcoulomb

$$1 \text{ C} = 10^9 \text{ stat C}$$

- ② Electromagnetic unit of charge

$$1 \text{ C} = \frac{1}{10} \text{ e.m.u. of charge}$$

Who Is In Charge Unit Lesson

Roy Jarratt, Tristram Shepard



Who Is In Charge Unit Lesson :

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Uniform System of Accounts of Class I and Class II Common Property and Interpretations There of United States. Interstate Commerce Commission, 1971

The Caterpillar Way: Lessons in Leadership, Growth, and Shareholder Value Craig Bouchard, James Koch, 2014. Provides a behind-the-scenes look at Caterpillar's rise to global dominance in the construction equipment manufacturing industry, revealing the series of risky business decisions made by the company's management that launched its success.

The Colbert Steam Plant, 1963. The Colbert Steam Plant is located on the south bank of Pickwick Landing Lake at mile 245 Tennessee River mileage upstream from the confluence with the Ohio River and 14.5 miles downstream or west of the Wilson Dam.

Uniform System of Accounts for Class I and Class II Common and Contract Motor Carriers of Property, 1958

Brief Lessons of Physics Deepak Kumar Singh. It is a course book of physics for class 12 students. It contains brief notes of all the lessons present in the syllabus. Notes are to the point in simplified language.

Proposed Revision of the Uniform System of Accounts for Class 1 Common and Contract Motor Carriers of Property, Subject to Provisions of the Interstate Commerce Act United States. Interstate Commerce Commission, 1947

The War of Detachments: Lessons in Counterinsurgency Small Unit Actions in Vietnam, 1965-1968, **Introduction to Industrial Hygiene Engineering and Control (552)** National Institute for Occupational Safety and Health. Division of Training & Manpower Development, 1978

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