

- विद्युत एक प्रकार की ऊर्जा है और ऊर्जा संरक्षण नियम के अनुसार इसका रूप नहीं होता बल्कि इसे एक रूप से दूसरे रूप में बदल जा सकता है।
- कारण यह है कि विद्युत ऊर्जा को उष्मीय ऊर्जा, रासायनिक ऊर्जा, चुम्बकीय ऊर्जा आदि अनेक रूपों में बदल जा सकता है।
- किसी पदार्थ का वह विशेष गुण जिसके कारण वह अपने चारों ओर वैद्युत, चुम्बकीय या वैद्युत-चुम्बकीय प्रभावों को उत्पन्न करता है या उसका अनुभव करता है, वैद्युत आवेश कहलाता है।
- किसी पदार्थ की आवेशिता होने का तात्पर्य उस पदार्थ में इलेक्ट्रॉन की कमी या अधिकता से होता है।
- यदि किसी पदार्थ में इलेक्ट्रॉनों की कमी है तो वह आवेशित और अधिकता है तो ऋण आवेशित होता है।
- विद्युत की खोज सर्वप्रथम 2500 वर्ष पूर्व यूनानी वैज्ञानिक "थालेस" ने धरती को द्वारा एम्बेन्सल की छद्म को रोशनी से रोशनी कर उसके द्वारा कागज को छोटे-छोटे टुकड़ों को आकर्षित करने में सफल पाई थी तथा इसकी व्याख्या डेमोक्रीटस द्वारा की गई।
- इस प्रकार के विद्युत का कोई व्यावहारिक उपयोग नहीं किया जा सकता है; जिसे स्थैतिक विद्युत (static electricity) नाम दिया गया।
- उन्नीसवीं शताब्दी में "बेन्जामिन फ्रैंकलिन" ने रासायनिक अभिक्रिया द्वारा चलित विद्युत पैदा किया था जिसे चलक धारों के द्वारा स्थानांतरित किया जा सकता था। यह चल विद्युत (dynamic electricity) कहलाया। इसके बाद वैद्युत ने चुम्बकीय चल रेखाओं का चलित चलक द्वारा लगातार संचलन करके भी चल विद्युत का उत्पादन किया।
- चलक में "आवेश प्रवाह की दर" को विद्युत धारा कहते हैं।

### ■ वैद्युतिक दुर्घटनाएँ (Electrical Accident) :

- विद्युत क्षेत्र एक अत्यंत संवेदनशील क्षेत्र है जिसमें कार्य के दौरान दुर्घटना की निरंतर संभावना बनी रहती है। जैसे विद्युत का झटका लगना या आग पकड़ना इत्यादि।

### ■ विद्युत झटका लगने का कारण :

- जब सामान्यतः 90 V से अधिक वोल्टेज पर हमारे शरीर के अंग-पद विद्युत धारा प्रवाह स्थापित हो जाता है तो हमें एक झटके का अनुभव होता है। विद्युत धारा—100 mA
- उपरोक्त कारण से ही जलपात्रों, धातुपात्रों एवं वायुपात्रों आदि में सफलतापूर्वक वोल्टेज 110 रखा जाता है।

- (iii) श्रेणी 'C' आग—सिलिण्डर आदि में घरी LPG गैस आदि में लगी आग श्रेणी 'C' की आग होती है।
- (iv) श्रेणी 'D' आग—विद्युतों के तारों, उपकरणों एवं अन्य धातुयुक्त पदार्थों में लगी आग को बुझाने के लिए  $CO_2$  या CTC बॉक्स का प्रयोग करते हैं। ये आग श्रेणी 'D' की आग है।

### ■ अग्निशामक बॉक्स (Fire Extinguisher) :

- यह एक ऐसा उपकरण है जिसके द्वारा जलती हुई वस्तु पर द्रव, गैस या चूर्ण का छिड़काव करके आग या चार्ज किया किया जा सकता है।
- ये निम्न प्रकार के होते हैं—
- (i) जलपूरक अग्निशामक बॉक्स :  
  - इस प्रकार के बॉक्स में वायुदाब के साथ जल भरा रहता है जिसकी सहायता आग पर करने पर आग पर चार्ज या सकते हैं। यह श्रेणी 'A' की आग बुझाने के लिए उपयुक्त है।
- (ii) झाग पैदा करने वाला अग्निशामक बॉक्स :  
  - इस प्रकार के बॉक्स में जल की सहायता के साथ साथ झाग भी छोड़ते हैं। इस प्रकार के अग्निशामक बॉक्स से श्रेणी 'B' की आग बुझाई जाती है।
- (iii) सूक्ष्म पाउडर वाला अग्निशामक बॉक्स :  
  - इस प्रकार के बॉक्स में जल के स्थान पर वायुदाब के साथ अत्यल्पमात्रा में चार्ज भरा होता है।
  - इसका उपयोग श्रेणी 'C' प्रकार की बुझाने में किया जाता है।
- (iv) कार्बन-डाइ-ऑक्साइड वाला अग्निशामक बॉक्स :  
  - इस प्रकार के बॉक्स में सॉलियम बाइकार्बोनेट तथा गंधक के तनु अम्ल की रासायनिक अभिक्रिया कराकर अल्पमात्रा में कार्बन-डाइ-ऑक्साइड ( $CO_2$ ) पैदा किया जाता है जिससे लगी आग बुझ जाती है।
  - इससे श्रेणी 'D' प्रकार की आग अर्थात् वैद्युतिक धारों इत्यादि में लगी आग को बुझाया जाता है।
- (v) कार्बन टेट्राक्लोराइड वाला अग्निशामक बॉक्स :  
  - इस प्रकार के बॉक्स में कार्बन टेट्राक्लोराइड ( $CCl_4$ ) अथवा डायोक्साइड डि फ्लोरो मिथेन नामक द्रव, वायुदाब के साथ भरा रहता है।
  - यह अग्निशामक बॉक्स सभी प्रकार की आग बुझाने के लिए प्रयोग किया जाता है।



# Iti Electronic Theory Notes

**M Woodhall**



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