

- 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 रोम से राह कर उसके द्वारा कागज को छोटे-छोटे टुकड़ों को आकर्षित करने में सफल पाई थी तथा इसकी व्याख्या डेमोकृतिस फ्रैकलिस ने किया।
- इस प्रकार के विद्युत का कोई व्यावसायिक उपयोग नहीं किया जा सकता है; जिसे स्थैतिक विद्युत (static electricity) नाम दिया गया।
- उन्नीसवीं शताब्दी में "बेन्ड" नामक वैज्ञानिक ने रासायनिक अभिक्रिया द्वारा चलित विद्युत पैदा किया था जिसे चलक तारों के द्वारा स्थानांतरित किया जा सकता था। यह चल विद्युत (dynamic electricity) कहलया। इसके बाद वैद्युत ने चुम्बकीय चल रेखाओं का चलितक 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, धालपात्रों एवं वायुपात्रों आदि में सफल 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 धातविक पदार्थों में लगी आग को बुझाने के लिए  $CO_2$  या CTC बॉल का प्रयोग करते हैं। ये आग श्रेणी 'D' की आग है।

### ■ अग्निशामक बॉल (Fire Extinguisher) :

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



### ■ सामान्यतः ज्ञात :

# Iti Electronic Theory Notes

**Katrin Zwirgmaier**



## **Iti Electronic Theory Notes:**

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### **Table of Contents Iti Electronic Theory Notes**

1. Understanding the eBook Iti Electronic Theory Notes
  - The Rise of Digital Reading Iti Electronic Theory Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Iti Electronic Theory Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Iti Electronic Theory Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iti Electronic Theory Notes
  - Personalized Recommendations
  - Iti Electronic Theory Notes User Reviews and Ratings

- Iti Electronic Theory Notes and Bestseller Lists
- 5. Accessing Iti Electronic Theory Notes Free and Paid eBooks
  - Iti Electronic Theory Notes Public Domain eBooks
  - Iti Electronic Theory Notes eBook Subscription Services
  - Iti Electronic Theory Notes Budget-Friendly Options
- 6. Navigating Iti Electronic Theory Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Iti Electronic Theory Notes Compatibility with Devices
  - Iti Electronic Theory Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Iti Electronic Theory Notes
  - Highlighting and Note-Taking Iti Electronic Theory Notes
  - Interactive Elements Iti Electronic Theory Notes
- 8. Staying Engaged with Iti Electronic Theory Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Iti Electronic Theory Notes
- 9. Balancing eBooks and Physical Books Iti Electronic Theory Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Iti Electronic Theory Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Iti Electronic Theory Notes
  - Setting Reading Goals Iti Electronic Theory Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iti Electronic Theory Notes
  - Fact-Checking eBook Content of Iti Electronic Theory Notes
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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