Seminar One

 DX

XJTU

2018年10月14日

Outline

- 1 Topic One
 - Converter Valve
- 2 Electromagnetic Field
 - Maxwell
 - Transmission Line
- 3 third section









■ Converter Valve

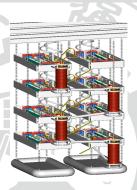
- 2 Electrom ghed Sheld
 - Maxwell
 - Transmission Line
- 3 third se t on -

1896

Structure







(b) Structure

图: Converter Valve

Layer

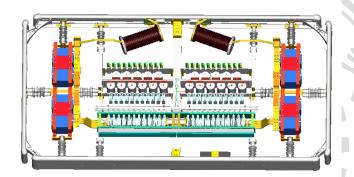
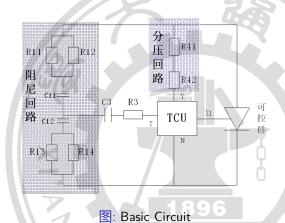


图: Layer 896

Circuit





- 1 Topic One
- 2 Electromagnetic Field
- third section



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Maxwell

Maxwell Equation

$$\oint_{I} \vec{H} \cdot dI = \int_{S} \vec{J} \cdot dS + \int_{S} \frac{\partial \vec{D}}{\partial t} \cdot dS$$

$$\oint_{I} \vec{E} \cdot dI = -\int_{S} \frac{\partial \vec{B}}{\partial t} \cdot dS$$

$$\oint_{S} \vec{B} \cdot dS = 0$$

$$\oint_{S} \vec{D} \cdot dS = q$$

关系

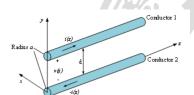
$$\vec{D} = \epsilon \vec{E} \Rightarrow$$
 类似电容的关系 $\vec{B} = \mu \vec{H} \Rightarrow$ 类似电感的关系 $\vec{J} = \gamma \vec{E} \Rightarrow$ 类似电阻的关系

Transmission Line

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Transmission Line

Telegrapher's Equation



$$-\frac{\partial v(z,t)}{\partial z} = R' i(z,t) + L' \frac{\partial i(z,t)}{\partial z} - \frac{\partial i(z,t)}{\partial z} = G' v(z,t) + C' \frac{\partial v(z,t)}{\partial z}$$

1896



- third section



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