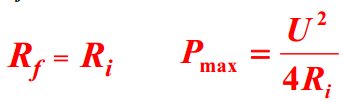


ν 全解= 齐次解+ 特解  
ν 全响应= 自由响应+ 强制响应  
ν 全响应= 零状态响应+ 零输入响应  
¬ 零输入：输入激励为零  
¬ 零状态：电路中所有动态元件的初始储能为零  
¬ 零输入响应：独立源激励为零, 由初始储能激励产生响应  
¬ 零状态响应：储能元件无初始储能, 由电源激励产生响应

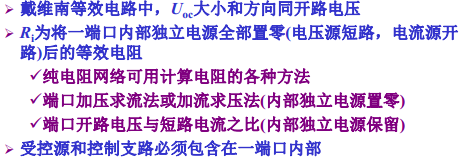
一阶电路的零输入响应是从初值以指数衰减为零：

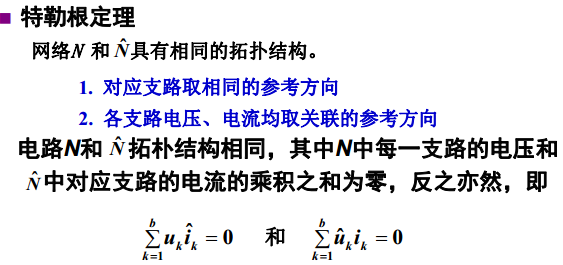
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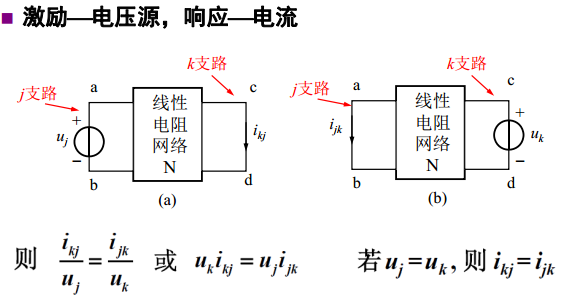
最大功定理：

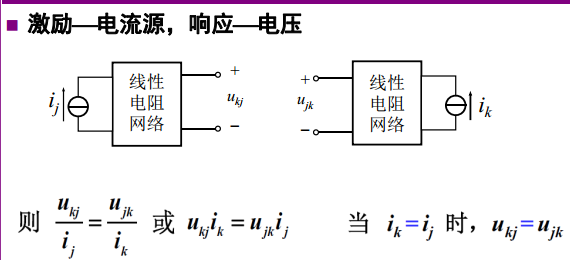
当电路中只有一个激励(独立源)时，则响应(电压或电

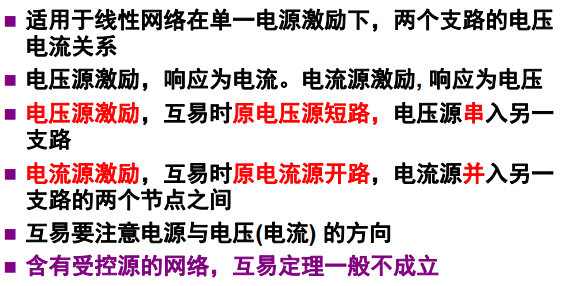
流)与激励成正比

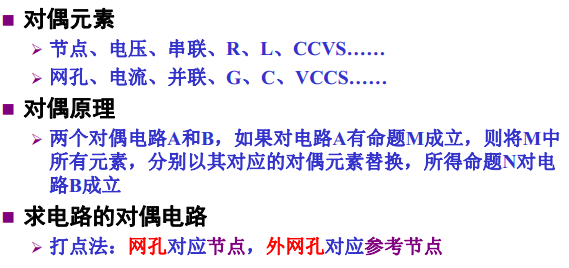


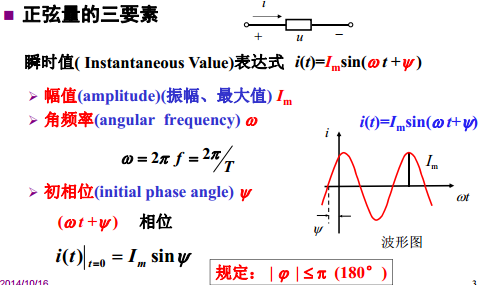






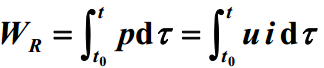


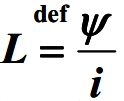
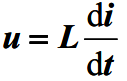


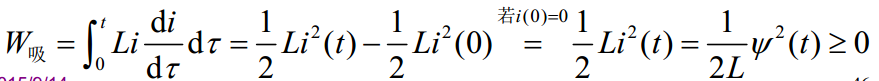


单位名称：西门子，简称：西，符号： S

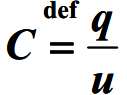
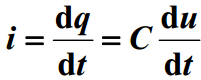
单位名称：欧姆，简称：欧，符号： Ω

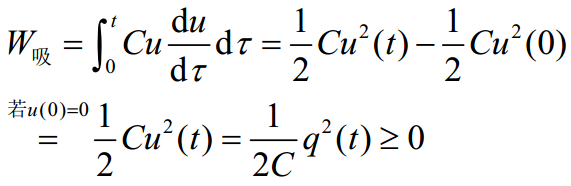
消耗的能量：

线性电感：||

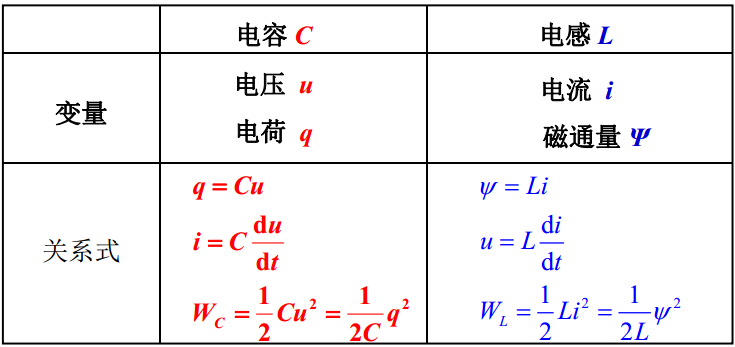


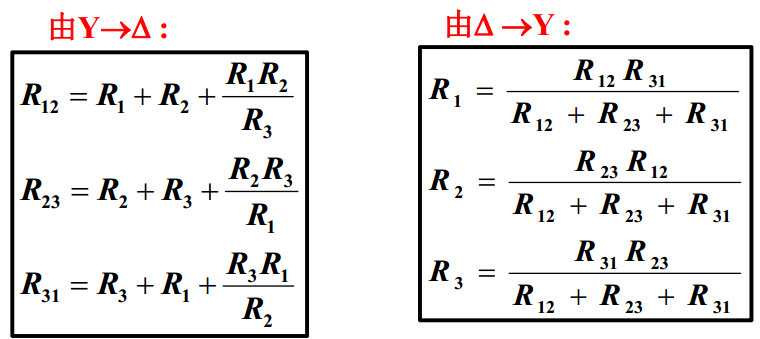
单位名称：亨利，简称：亨，符号： H

线性电容：||



单位名称：法拉第，简称：法，符号： F



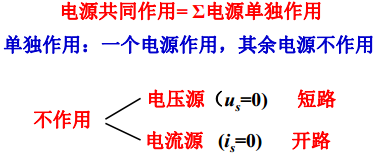


基尔霍夫电流定律（KCL）

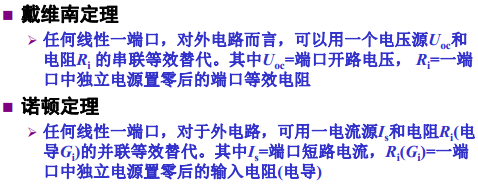
基尔霍夫电压定律（KVL）

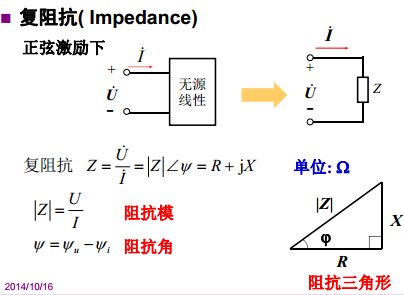


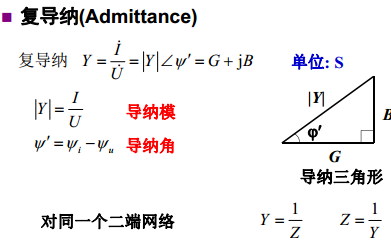
叠加定理：

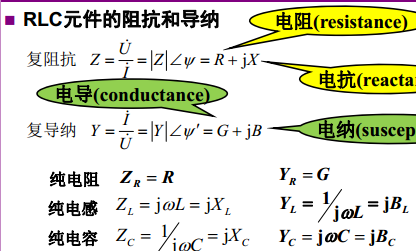


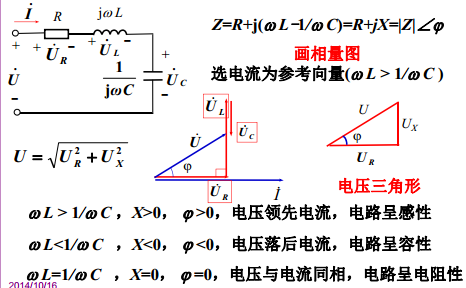
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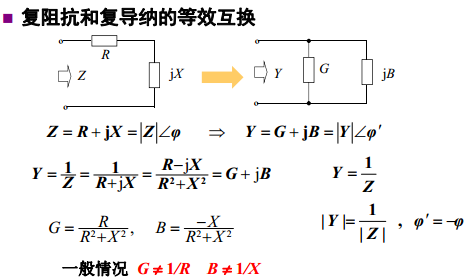


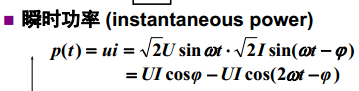


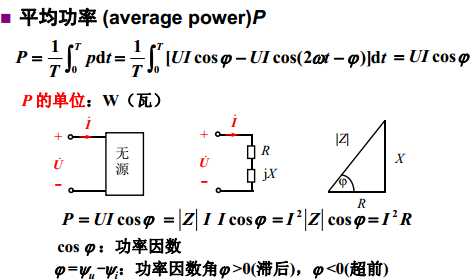




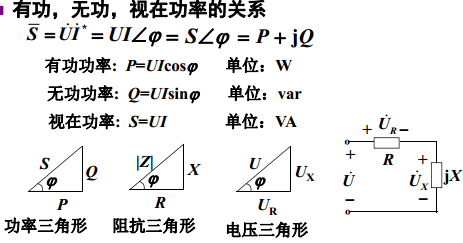


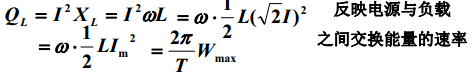


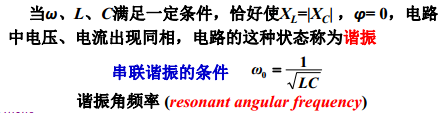


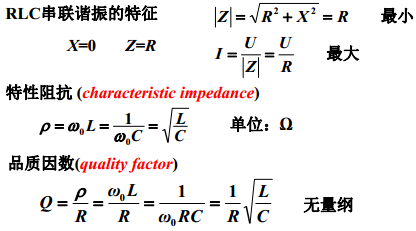


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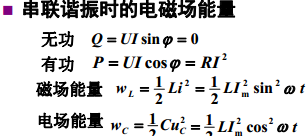




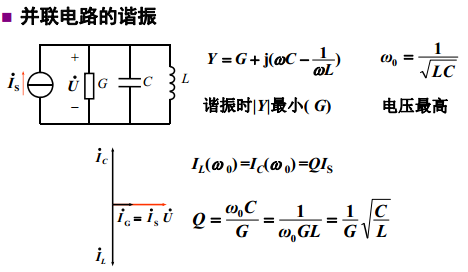


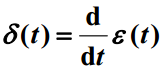


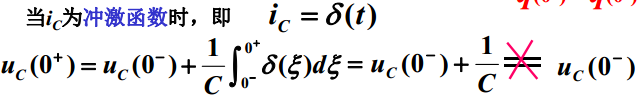
Q越大，谐振曲线越尖，选择性越好。

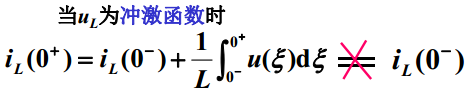


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 |C:\Users\ufozgg\AppData\Roaming\Tencent\Users\657228726\QQ\WinTemp\RichOle\98U{UF3N71_N91~T}I)1VX8.png

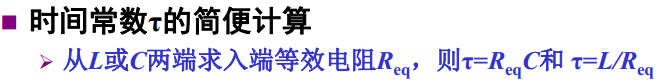




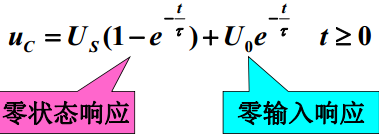
工程上认为，经过3τ ～ 5τ的时间过渡过程结束 τ：电容电压衰减到原来电压36.8% 所需的时间

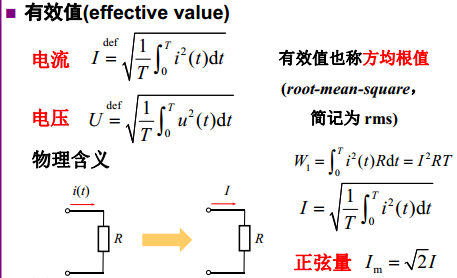
τ=RC τ=L/R

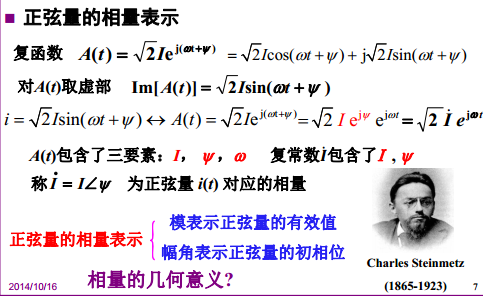
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U\_C(全响应)=0.667(强制分量/稳态解)+1.333e^(-0.5t)(自由分量/暂态解)V







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