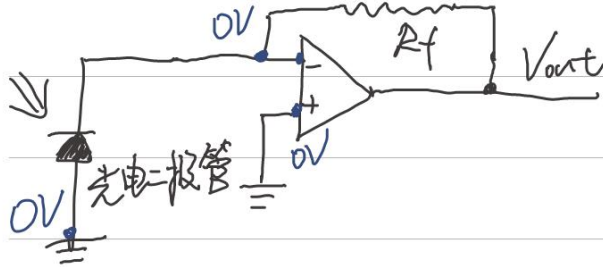


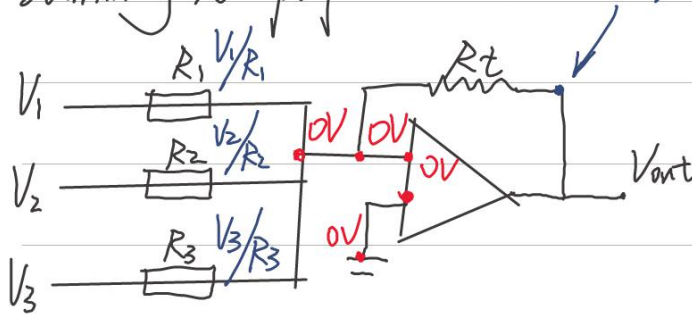
日期: /

Current-to-voltage Converter

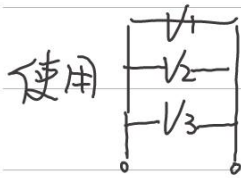


光电管电流不受
两端电压影响

Summing Amplifier $(V_1/R_1 + V_2/R_2 + V_3/R_3) R_f$

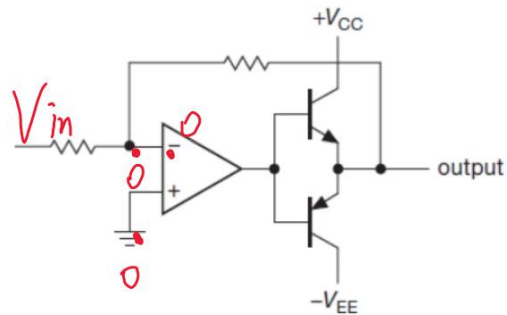
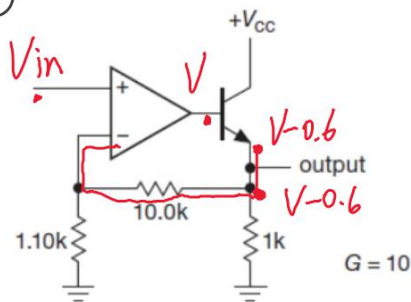


$$V_{out} = V_1 + V_2 + V_3$$



使用 会使 $V_{out} < V_1 + V_2 + V_3$

High Power Booster



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Power Supply

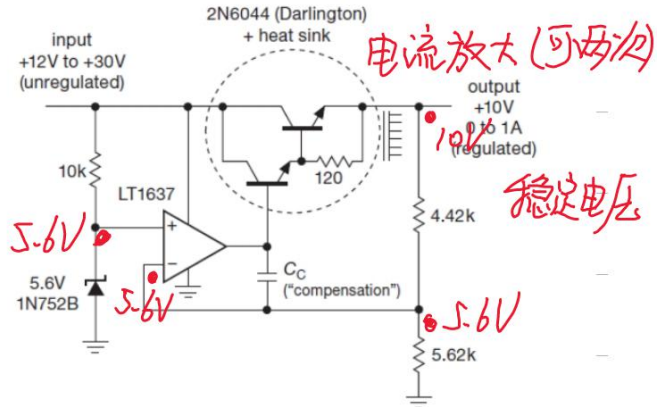
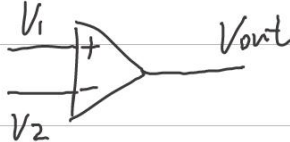


Figure 4.29. Voltage regulator.

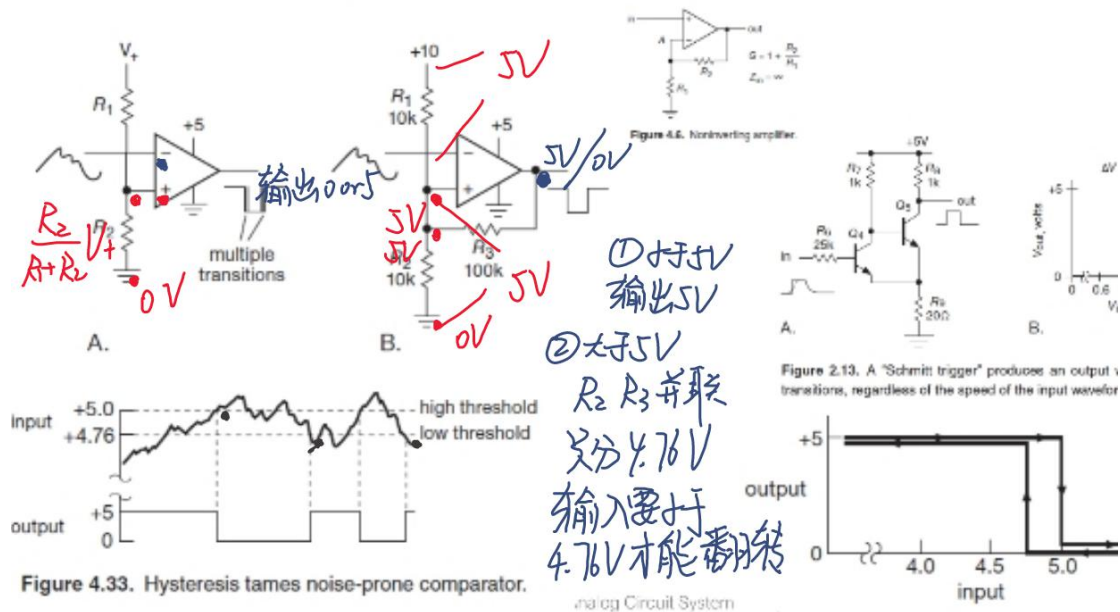
Comparator



"+"端高于"-" 输出高电平
"+"端低于"-" 输出低电平

Schmitt Trigger as Comparator

Schmitt Trigger as Comparator

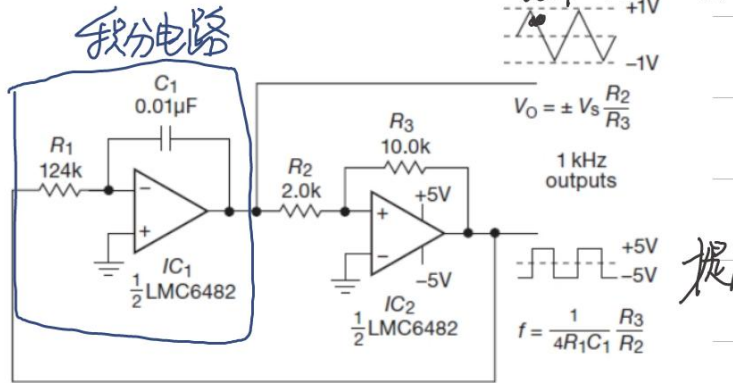


analog Circuit System

日期: /

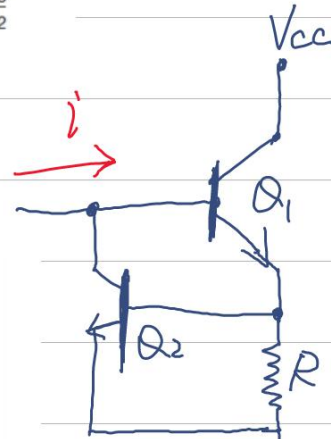
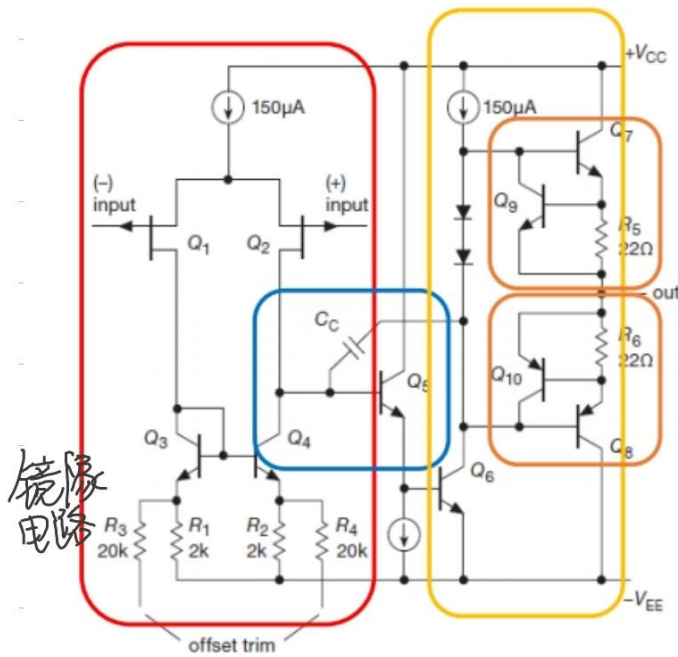
积分 翻转

三角波 oscillator



提供方波

LF411

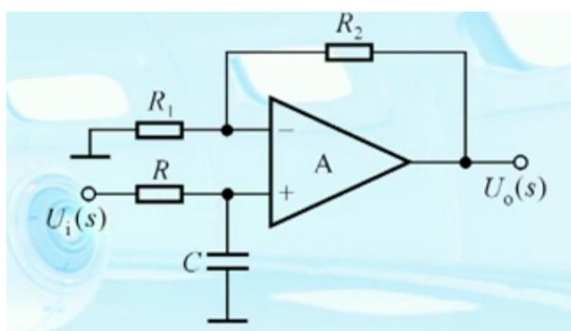


Q₁导通, 电流过大,
R压降↑, 导致Q₂
导通, Q₁关闭

Q₂通使Q₁ E极

电压↑, Q₁电流↓,
R压降↓, Q₂关闭, Q₁
又开, 动态平衡

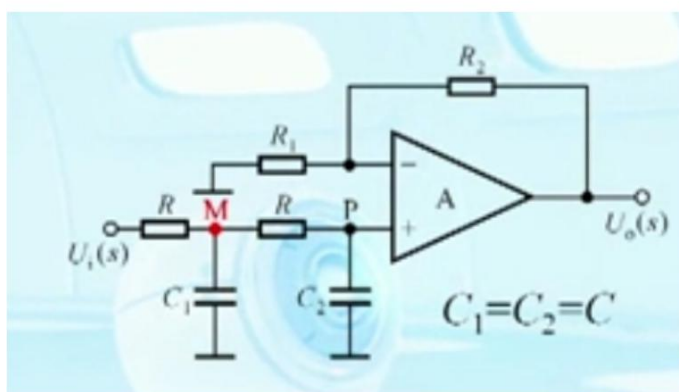
日期: /



一所有源低通

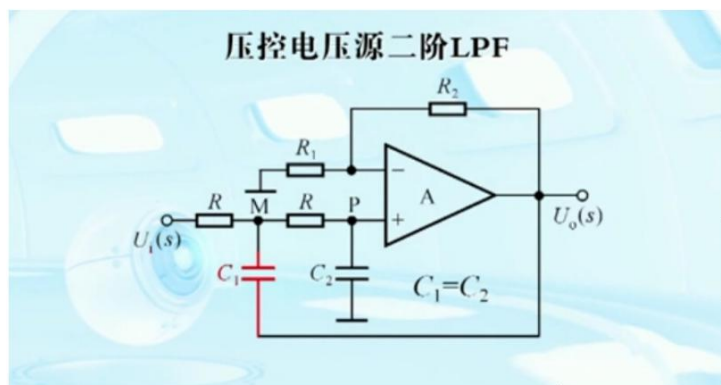
通带放大倍数 A_{up}
 $= 1 + \frac{R_2}{R_1}$

$$f_p = \frac{1}{2\pi RC}$$



二所有源低通

$$f_p \approx 0.37 f_0$$



$f=0$, C_1 断, 无正反馈; $f \rightarrow \infty$, C_2 短, 无负反馈