

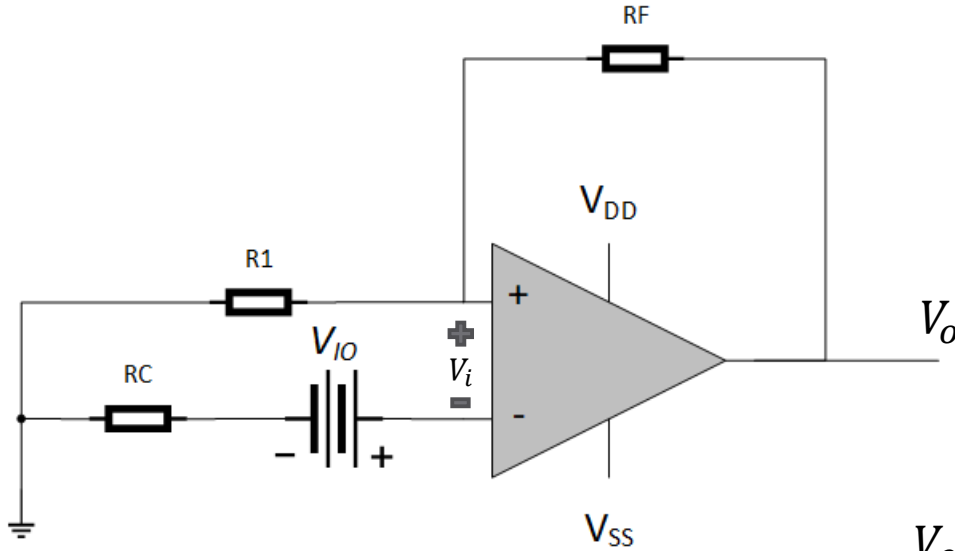
# ELM320 ANALOG ELEKTRONİK

Ders Materyali

İŞLEMSEL YÜKSELTEÇ  
PARAMETRELERİ

## İŞLEMSEL YÜKSELTEÇ PARAMETRELERİ

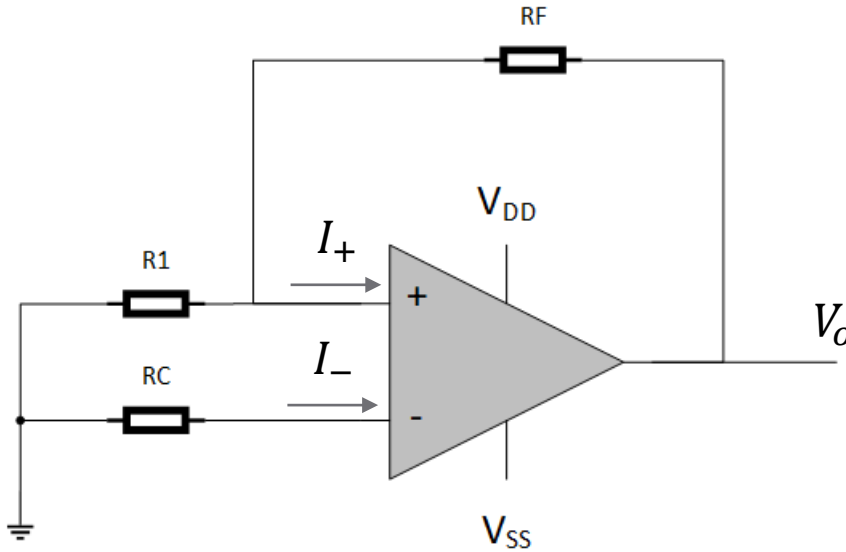
Giriş offset geriliminin çıkışa etkisi:



$$V_{o(offset)} = \left(1 + \frac{R_F}{R_1}\right) V_{IO}$$

## İŞLEMSEL YÜKSELTEÇ PARAMETRELERİ

Giriş offset akımının çıkışa etkisi:

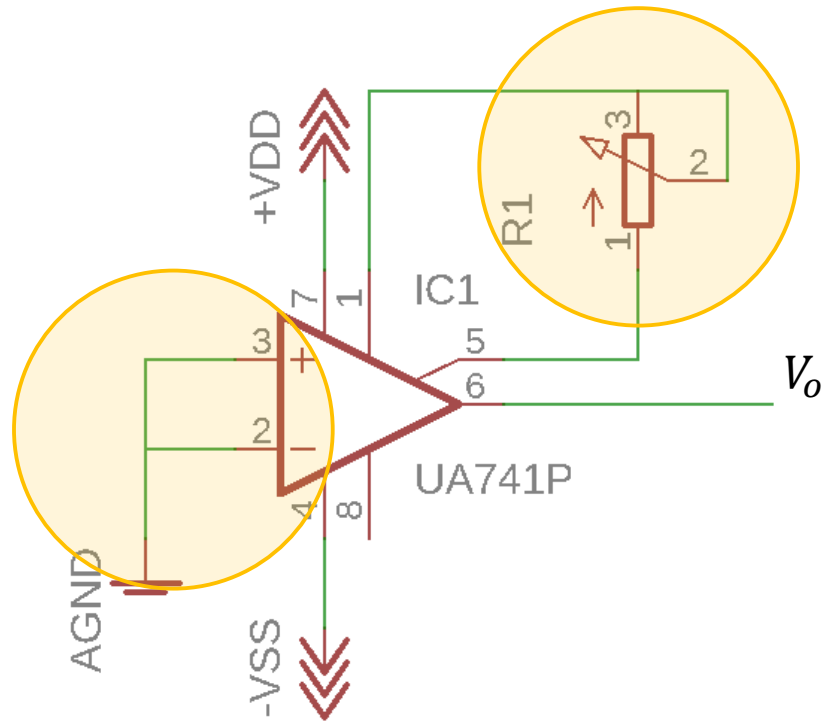


$$I_{IO} = I_+ - I_-$$

$$V_{o(offset)} = RF \times I_{IO}$$

# İŞLEMSEL YÜKSELTEÇ PARAMETRELERİ

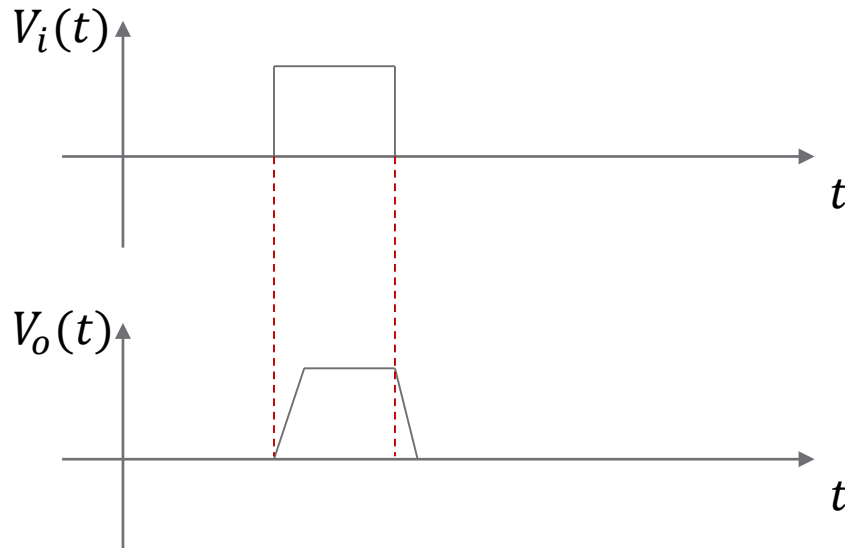
Offset geriliminin ayarlanması:





# İŞLEMSEL YÜKSELTEÇ PARAMETRELERİ

Yükselme hızı (slew-rate):



$$SR = \frac{\Delta V_o}{\Delta t}$$

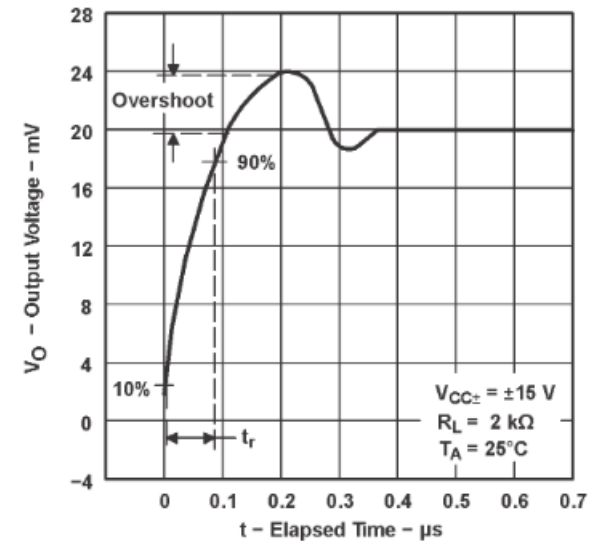
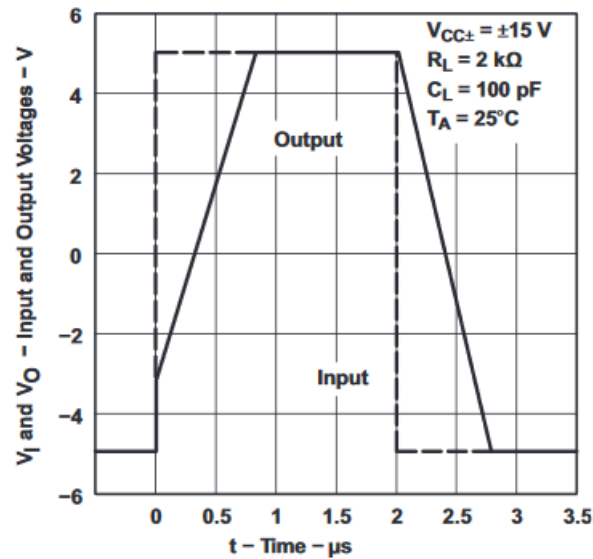
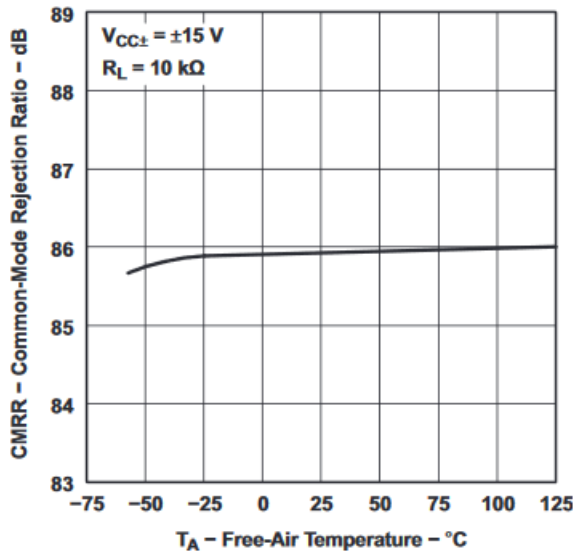
$$V_o(t) = K \sin(2\pi f t)$$



$$f_{max} = \frac{SR}{2\pi K}$$

# İŞLEMSEL YÜKSELTEÇ PARAMETRELERİ

Grafiksel veriler:



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