EC6 720

Advanced Analog IC Design

Lecture 29

Spring 2016

→ Study H.W. & Quizzes ←

1) ch. 8 (9) noise → fundamental questions

transistor noise

diff-pair, current mirror load

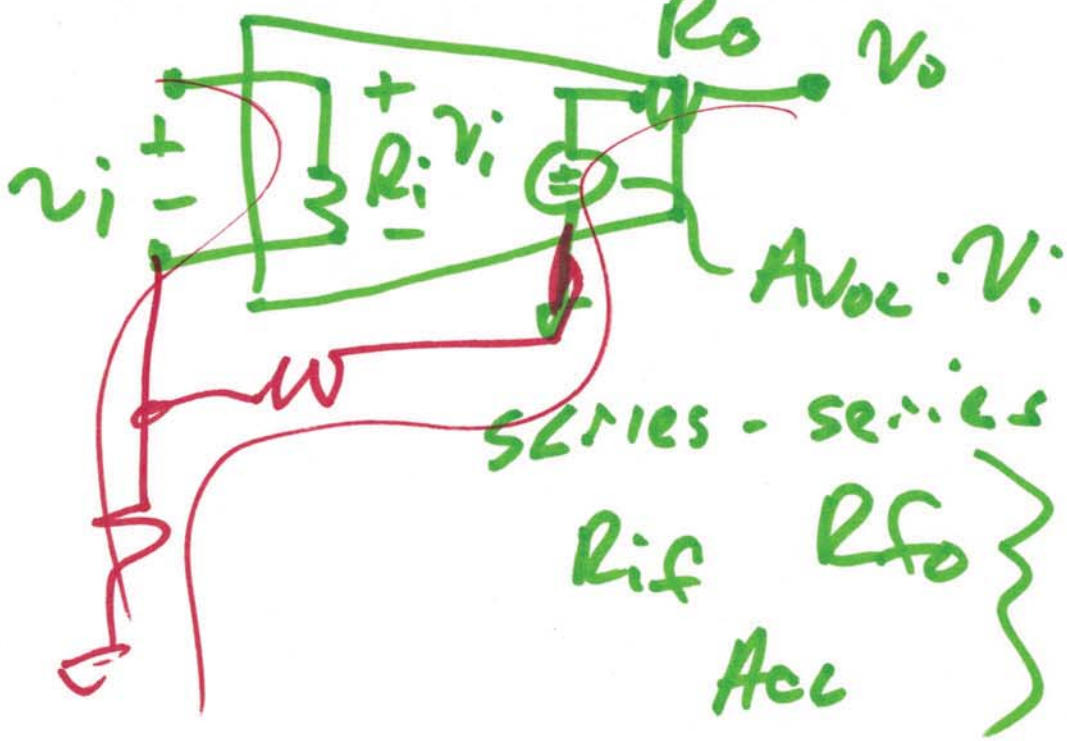
input referred noise

transistor

2) Ch. 3 → feedback Amps

$$R_{if} = \frac{R_i}{1 + \beta A_{OL}}$$

$$R_{if} = R_i (1 + \beta A_{OL})$$



3) Data Converters

Understand the operation

DNL & INL → matching requirements

4) Building blocks for Data converters

S/H or multiplex x2

And/or subtraction

derive operation $CV = Q$