

EC432 – Week 12

Supplementary Textbook Material (**Lecture Notes is the Main Reference**)

	Razavi	Sedra 6th Edition
Opamp		
Ideal Opamp	p. 380 – 395	
Nonideal opamp	p.399-403	
Active Loads		
Differential-to-Single Conversion	p515-519	
Cascode		
Common Gate	p. 346-348	
Single Cascode (ro, Gain)	p.439, p.430-p431 (double cascode load)	p.482-486 Exclude equations 6.21-6.22
Differential Cascode	p.505-509	
Active Load + Cascode	p.439-440	p.487-489
Current Mirrors		
Ideal Current Mirror	p.451-453, p.441-443	p.503-504
Channel Length Effects (Early Effect)		p.504-506
Cascode Current Mirror		p.514
PMOS and NMOS Current Mirror Combinations	p.454	p.507-508
Op-Amp Internal Circuits		
Source/Emitter Follower	p.352-353, p.250, Read Only: p. 695 (bottom)- 697(Top)	p.426-428
Frequency Response		
Miller Theorem	p. 553-555	
Parasitics	p. 561-562	

Feedback		
Closed Loop	p.611-612	
Stability	p.660-664	
Compensation	p.671-674	