

EE204

Analog Circuits

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[Link to EE204 course website](#)

Course Contents

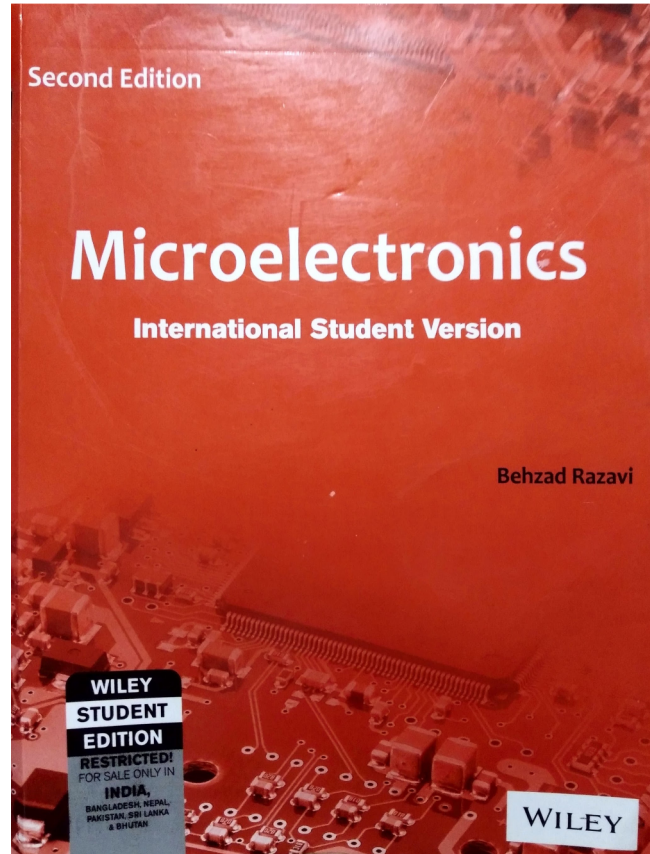
[Link to Lecture Page](#)

Lecture	Topic
1	Analog Circuits, Fabrication
2	Circuit Basics
3	AC, DC, Analysis
4	Operational Amplifier as a black box
5	Inverting, Non-inverting, Adder, Difference amplifiers
6	Instrumentation amplifier, Integrator, Differentiator
7	DC offset, i/p Bias currents
8	Finite Bandwidth effect, Slew Rate
9	PN Junction
10	Diode Models
11	Mobile charger, Rectifier
12	BJT
13	PNP, Small Signal
14	BJT DC Analysis
15	MOS, ID derivation
16	CLM, Body effect, Subthreshold Operation

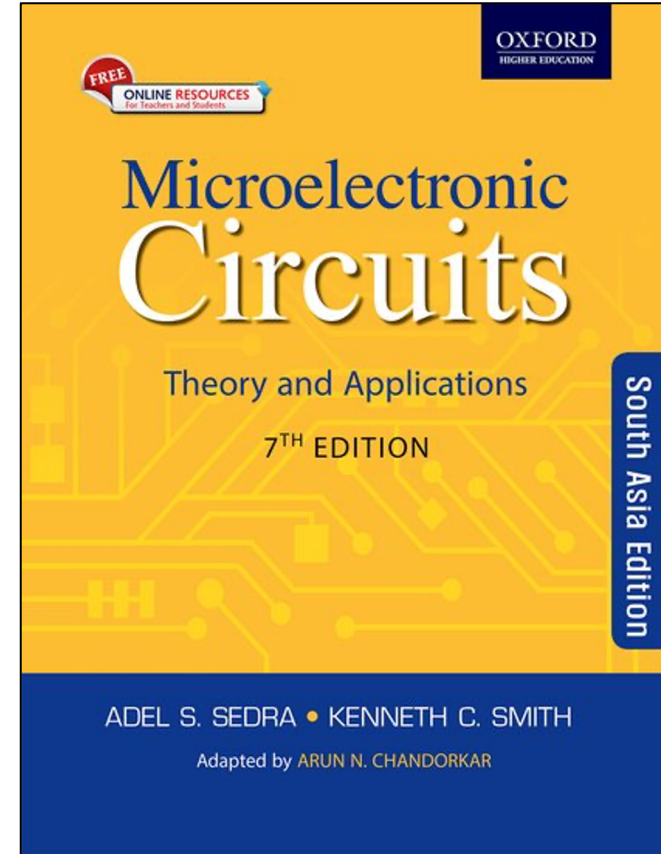
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Lecture	Topic
17	PMOS, MOS Small signal
18	MOS, DC analysis
19	Amplifier Introduction, CE, CS amplifier
20	Degenerated CE, CS o/p resistance
21	CB, CG amp, Emitter Follower
22	Emitter Follower, Source Follower
23	Current Mirror
24	Advanced Current Mirrors, Bipolar Mirror
25	Mismatches, Diff amp. qualitative
26	Differential pair Large signal, Bipolar MOS
27	Virtual Gnd, CMRR
28	DC offset, ICMR, Diff pair mirror load MOS and BJT
	Frequency Response
	Feedback
	Stability
	Op-amp Compensation



[Link to Microelectronics by Behzad Razavi](#)



[Link to Microelectronic Circuits by Sedra & Smith](#)