

DRONACHARYA COLLEGE OF ENGINEERING, GURGAON

DEPARTMENT OF EEE

NPTEL Links

ANALOG ELECTRONICS (EE-202-F)

<u>SECTION</u>	<u>TOPIC NAMES</u>	<u>NPTEL LINKS</u>
Section A	<ul style="list-style-type: none">Review of P-N junction and Characteristics, P-N junction as a rectifier	http://nptel.ac.in/video.php?subjectId=117103063
	<ul style="list-style-type: none">Switching characteristics of Diode, Diode as a circuit element	http://nptel.ac.in/video.php?subjectId=117103063
	<ul style="list-style-type: none">half-wave and full wave rectifiers	
	<ul style="list-style-type: none">clipping circuits, clamping circuits, filter circuits	http://nptel.ac.in/video.php?subjectId=117103063
	<ul style="list-style-type: none">peak to peak detector and voltage multiplier circuits.	http://nptel.ac.in/courses/117106087/6
Section B	<ul style="list-style-type: none">Review of device structure operation and V-I characteristics. Circuits at DC, MOSFET as Amplifier and switch	http://nptel.ac.in/courses/117106087/26
	<ul style="list-style-type: none">Biasing in MOS amplifier circuits,	http://nptel.ac.in/courses/117106087/27

	<ul style="list-style-type: none"> • small-signal operation and models, single stage 	http://nptel.ac.in/courses/117106087/28
	<ul style="list-style-type: none"> • MOSFET internal capacitances and high frequency model, frequency response of CS amplifier 	http://nptel.ac.in/video.php?subjectId=117103063
Section C	<ul style="list-style-type: none"> • Review of device structure operation and V-I characteristics, BJT circuits at DC, BJT as amplifier and switch, biasing in BJT amplifier circuit 	http://nptel.ac.in/video.php?subjectId=117103063 http://nptel.ac.in/courses/117106087/20
		http://nptel.ac.in/video.php?subjectId=117103063 http://nptel.ac.in/courses/117106087/21
	<ul style="list-style-type: none"> • small-signal operation and models, single stage BJT amplifier, 	http://nptel.ac.in/video.php?subjectId=117103063 http://nptel.ac.in/courses/117106087/22
	<ul style="list-style-type: none"> • BJT internal capacitances and high frequency model, frequency response of CE amplifier. 	http://nptel.ac.in/video.php?subjectId=117103063
Section D	Inverting and non-inverting configurations, difference amplifier, Effect of finite open loop gain and bandwidth on circuit performance, Large signal operation of op-amp.	http://nptel.ac.in/video.php?subjectId=117103063
	The general feed back structure, properties of negative feed back, the four basic feed back topologies, the series-shunt feedback amplifier, the series-series feedback amplifier, the shunt-shunt and shunt series feedback amplifier.	http://nptel.ac.in/video.php?subjectId=117103063
	<ul style="list-style-type: none"> • MOS differential pair, small signal operation of the MOS differential pair, BJT 	http://nptel.ac.in/video.php?subjectId=117103063

	<ul style="list-style-type: none">• differential pair, other non-ideal characteristic of the Differential amplifier (DA), DA with active load	
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