Pspice Tutorial

Electronics Lab.EE3102

How to inter to program:











***NOTE: Before simulation you have to save your schematic.



nalysis S	etup			×
Enabled		Enabled		
	AC Sweep		Options	Close
	Load Bias Point		Parametric	
	Save Bias Point		Sensitivity	
	DC Sweep		Temperature	
	Monte Carlo/Worst Case		Transfer Function	
\checkmark	Bias Point Detail		Transient	
	Digital Setup	1 -		_

1-Bias Point Detail: this is used in DC analysis at a certain point of input only.









3-DC Sweep: this is used to see the change of output versus a change in one parameter of the circuit "Parameter settings".





3-DC Sweep: this is used to see the change of output versus a change in one parameter of the circuit "analysis setup".

Analysis S	etup								28		
Enabled				, E	nabled						
	4	AC Swee	эр				Options.		Close		
	Loa	ad Bias F	Point				Parametri	D			
	Sav	/e Bias F	Point				Sensitivit	DC Swe	ep		X
~	C	C Swee	эр				Temperatu	Swe	ant Var. Tune	7	
	Monte C	arlo/Wo	orst Case	1		1	ransfer Fun	0	Voltage Source	Name:	×
	Bia	as Point	Detail	1			Transien	0	Temperature	Madel Turner	
14	D	igital Sel					Tanolon	0	Current Source	Model Type:	
		igital Sei	.up					0	Model Parameter	Model Name:	
								•	Global Parameter	Param. Name:	1
							_	Swe	ep Type	_	
									Linear	Start Value:	0
							_	C	Octave	End Value:	1
							1.1	0	Decade	Increment:	0.1
								0	Value List	Values:	
									1		_
									Nested Sweep	OK	Cancel



4-Transient: this is used to see the output response in the time domain.

• To have a sine source you have to choose Vsin its setting are as shown below:









Example Cont.

	I _D (mA) for V _{DS} =(V)							
V _{GS} (V)	0	0.5	1	2	5	10	15	
0								
-0.5								
-1.0								
-1.5								
-2.0								
-2.5								







Parametric Sweep With DC sweep to plot the characteristic curves of the JFET



Parametric Sweep With DC sweep to plot the characteristic curves of the JFET



Output	
, MANE[[으드 (영래乂]] 등 문왕열 • 문 [[눈 \영값의 드 (영래乂]] 등 문왕열 • 문 [눈 \영값의 드 생겼 [우 문 우 문	#5.ded ▶ 日」 11年1日月7日前年世史
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Best Regards