Nec2 Short reference card

1		2	3	4	5	6	7	8	9	10	11	
ЭW	Wire geom	Tag Nr	nr of segs	X1	Y1	Z1	X2	Y2	Z2	wire radius		
M	Geom Move	Tag increm	new structs	Rot X (deg)	Rot X (deg)	Rot Z (deg)	Mov X	Mov Y	Mov Z	From		
R.	Geom	Tag	total	(deg)	(deg)	(deg)				Tag		
E	Rotate no gnd	increm 0	structs	no arou	 nd plane p	resent (Fr	ee Space)					
_	ground	1			· ·			Z=0 are 'connected' to ground				
	plane	-1		(GN car	d required	; screen- a	and wire ra	adius on GN card should be blank) nnected' to ground (GN card required)				
X	ground Voltage	0	tag pr		XX ->	real	imag					asymotry)
	Src		tag nr	segm nr		volts	volts	(19: 0 No act.; 1 print rel.admit. matrix asymetry) (20: 0 No act.; 1 print imp's for frequency loop)				
*)	Current src	6	tag nr	segm nr	XX ->	real amps	imag amps					
R	linear	0	Nr of steps	0	0	start Mc	Step size			F1 = F0	+ step	
	log	1	nr of	0	0	start	Step			F1 = F0	* step	
SN	free	-1	steps			Mc	size			Nullifies	previous	ground settings
	space finite	0	nr rad.	0	0	diel.	Cond.	radius	radius	(In mete	re) See al	so GE card
	ground		wires			Const	S/m	screen	wires		must be s	
	perfect ground	1										
	sommer	2	0	0	0	diel.	Cond.					must be negative
.D	norton nullify	-1				Const	S/m			ior irequ	iency loop	
	serie	0	tag nr	start	0/end	R	L	С				series with EX and
	RLC parall	1	see 0	segm	segm	ohms see 0	Henry	Farad		TL card		no automatic
	<u>'</u>						1 11/	0.5		frequency scaling		
	serie RLC	2	see 0			R oh/m	L H/m	C F/m				
	parall	3	see 0			see 2						
	impe- dance	4	see 0			Resis. Ohms	React. Ohms	-				
	wire	5	see 0			Cond.	Offilis					
*)	cond. LC trap	6	See 0			mho/m Q-coil	L	С				
							henry	farad				
*)	Insula- ted wire	7	See 0			Diel. const	Coat radius					
TL	trans	tag-nr	seg-nr port1	tag-nr port 2	seg-nr port 2	imped	Length	admit real 1	admit ima 1	admit real 2	admit ima 2	
	line	port 1 a) Multip			ted in para	ohms allel	mtrs					D is in serie with T
RP	normal	0	theta steps	phi steps	XNDA	theta start	Phi start	Theta stsize	phi stsize	far fld dist.	norm gain F	
	add surf	1	see 0	XNDA:		I			I	Add sur	face wave	
	wave			17: 0: major/minor axis; 1: vert/hor gain 18: 0: no norm gain; 1-5: normalized gain 19: 0: power gain; 1: directive gain								
	ground	23	see 0	20:	u: no av	araging;	1: avar	gain; 2 ava	ar gain	Special	ground co	nditions
	cond's ground	4	see 0	·						·	Ground-screen; must be specified in	
	screen			GN card !								
	gnd scr, cond's	56	see 0								ound-scre conditions	en and special
PQ	no	-1										
	charges charges	0	tag nr	start	0/end							
PT	all curr	-2		segm	segm							
•	no curr	-1										
	Curr.	0	tag nr	start	0/end							
			_	segm	segm					Saa na	74 mar	ual
	Receiv- pattern	13	tag nr	start segm	0/end segm					See page 74 manual		
Geom	etry cards	I1	12	F1	F2	F3	F4					
	.5., 00100	3-5	6-10	11-20	21-30	31-40	41-50					
		1	1	1	1	1	1	1				
Prog-	ctrl cards	I1	12	13	14	F1	F2	F3	F4	F5	F6	