ELEC 4700 MNA Building

node
$$M_2$$
: $M_2 - M_1$ + $C = \frac{\partial(N_2 - N_1)}{\partial t} + \frac{M_2}{\bar{\gamma}_2} + I_L = 0$.
 $M_2 - N_3 = L = \frac{\partial I_L}{\partial t}$

node
$$N_3$$
: $\begin{bmatrix} -2L + Z_3 = 0 \end{bmatrix}$

$$I_3 = \frac{N_3}{R_3}$$

node
$$N4: 14 + \frac{N4-N5}{84} = 0$$
 $N4 = 2 \frac{1}{3}$

$$V(9\times1)$$
 $F(9\times1)$
 $C(9\times9)$ $G(9\times9)$
 A capacitar, L .

					N.	N ₂	Nz	N4	N5	I.	L	Z ₃	Z4
-	N. T		VINT		0	0	0	0	0	0	0	0	0
	N2		0		C	-C	0	0	0	0	0	0	0
	H3		0		- C	C	0	0	0	0	0	0	0
	N4		0		0	0	0	0	0	0	-2	0	0
	N5	F=	0	(C =	0	0	0	0	0	0	0	0	0
	7.1		0		0	0	0	0	0	0	0	0	0
-	IL		ð		0	0	0	0	C	0	0	0	0
1	I3		0		0	0	0	C)	0	00	0	0
	Z4		0]		0	0	0	0		0	0 0	0	0

$$C \frac{\partial \vec{v}}{\partial t} + G \vec{v} = \vec{F}$$

$$(G + jwC) \vec{v} = \vec{F}(w)$$

Hilroy