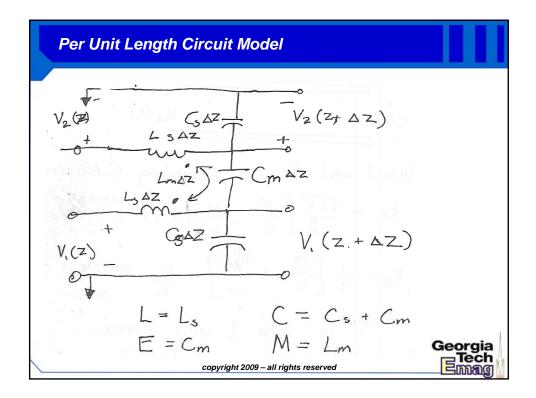


Physics of Coupling	
Tline 1 Equar Thine 2 This for the contract of the contract o	711
 Occurs when lines are either close and/ have very poor field confinement 	or
 Magnetic coupling through Faraday's law 	
 Electric coupling through Coulomb's law 	
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Measure of Coupling

$$L = L_{s} \qquad C = C_{s} + C_{m}$$

$$E = C_{m} \qquad M = L_{m}$$
If line is enbedded in a homogeneous

$$M = E \implies A = M = E$$

$$L = E \implies A = \frac{M}{L} = \frac{E}{C}$$

$$L C - ME = LC((1 - A^{2}) = \mu E$$

$$A = 0 \rightarrow vo \ coupling in the system$$
Georgia

