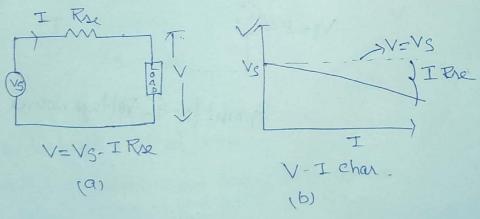
Sources -> There are two type of Sources Cources Current Source Independent Source (I) Voltage Source:

(a) Ideal Voltage Source in Am ideal Voltage Source that provide Constant Voltage across it terminal, irrespective of Current flowing it, i.e the integral yesustance is jego

or neglit negligible. V=Vs-Irs V-I chana. V=VS

(9)

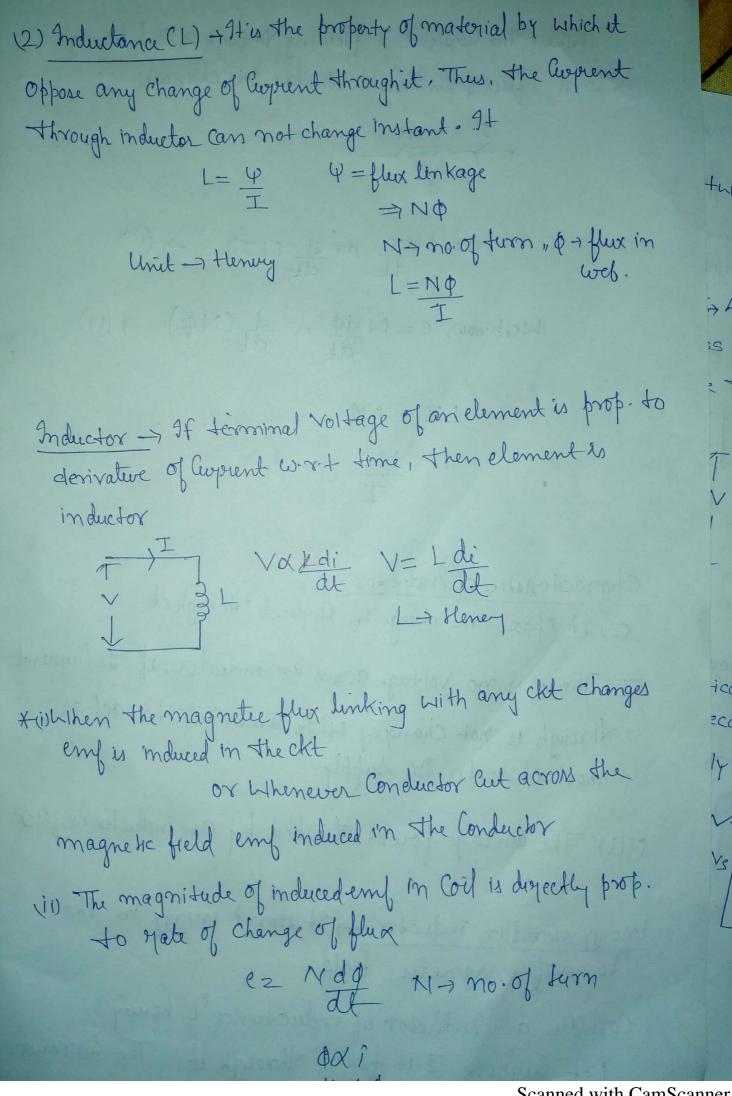
(b) Practical Voltage Source -> Protically, every Voltage Source has Smaller internal resistance, because of this voltage across The terminal decrease slightly with increase in Current



Voltage Source are jurther classified Into:> (i) Time invariant voltage source / DC Voltage source -> Source Voltage is not Varying with the lime age known as time invariant (ii) Time Variant Voltage Source or AC Voltage Source Symbol for Dc Voltage Source VS2LOSM (CWH30) Vs=15460 Symbol for AC Voltage Source

(II) (a) Ideal Current Source > 4 is a Source which give constant Cupyent at its terminal ignespective of Voltage a cross it terminal. Internal yesistance of ideal Cupient Source (b) (a) CK+. (b) Pratical Current Source > 9+ has finite internal gesistence and it deliver energy at specified Corrent which defind on Voltage across Source. In this, Rsh is in farallel With Current Source T= Is-Ish I=Is-Y They are further divided into (a) Time invariant Current Dource Or DC Dource

Independent Source of The Source does not depend on other Voltage or auguent in network for their values. These eye represented by Circle with polarity of Voltage overall direction of Current indicated inside Dependent Sources > Those Source Whose Value depend on Other lower present in okt. Representation >> i) Voltage dépendent Voltage source -> 9+ produces Voltage es function of voltage in the given ckt VS=KV1 VI is Voltage Some where in det VCVS Cunitless) ox iii Voltage def. Cuprent source (VCCS) AJS=KV, Or CVx unit To U (iv) Corrent dep Voltage Source (ii) Chyprent dep. Cuprent Source +VS=KI, OV CVX TS=KI, OrDix (unitless) unit 77



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