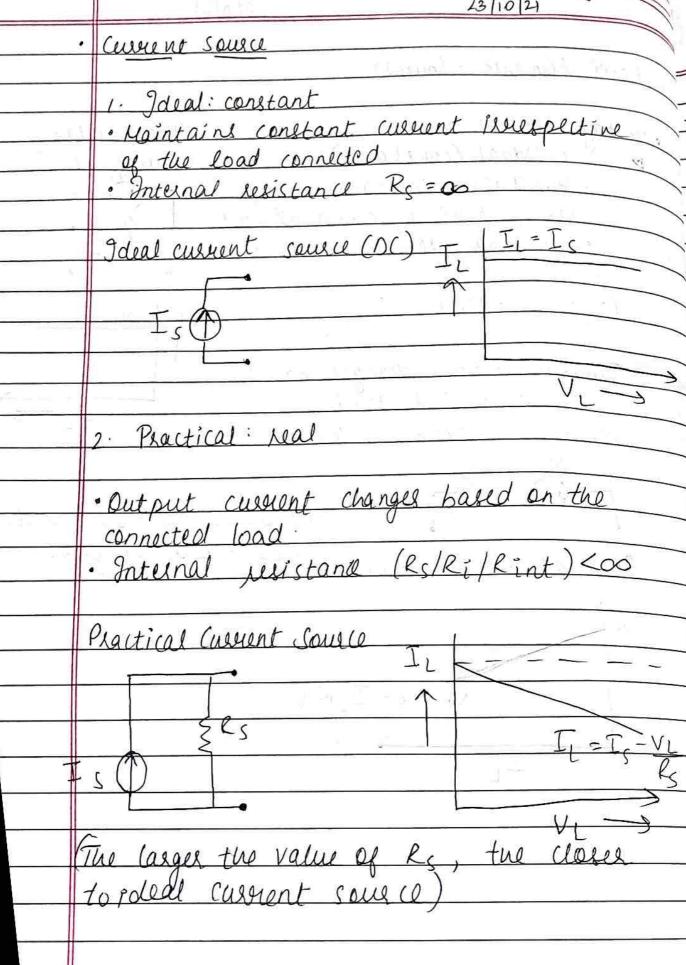
23	10	21
		,



23/10/21 · Series refistars: Reg = RI+R2 e, (VS = V1+V2) · Voltage divides : · Parallel resistors: Reg = K, Rz · Cusuent di wider: → Delivering and absorbing power by a source: · A battery is discharging (delivering power) energy), if useent is coming out from + ve terminal. · A battery is charging Cabsorbing power/energy).

if current is flowing into the terminal.

classmate 23/10/21 · When current glows through a resistor, power is dissipated. Q. Final equivalent resistance of networks given below 2 352N 22 62 4 3

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		23 10 21
_	<i>></i>	Inductor:
	_	
_	_	· Passive electric device that stores energy in its
_	_	maybe the when custont allows theory it.
ت	4	will wound on a coll
_	-	eg: ail cole el juon cose inductos
_	4	· Inductance: peoplety which opposes rate of
_	+	change of current
	+	Symbol: L
_	+	Unit: Meney (H)
_	+	· The walt are account industrial in
_	+	to the late of character us proportional
_	+	The voltage across inductor is proportional to the late of change of current through it. \[V_L = L \frac{di}{dt} \]
	+	V _L L q _L
-	#	
		Inductive Circuit:
	1	
		For a coil unisolally wound on an ois-com
		For a coil uniformly wound on an air-core of uniform cross section, Self inductance is
		given by
		$L = \mu_0 A N^2$
		L
	1	= length of magnetic circuit in motes
	A	= ceoss septional area in square meters
	14	= permeability of air = 4TT x10-7
	['] Λ	I = No of turns in the coil
#	_	The state of the s

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7	Capacitoss:
	· Passive electric device that steres energy in the electric field between a pair of closely spaced conductors
	· Capacitance: peoperty which opposes the late of change of voltage Symbol: C Unit: Farad (F)
#	
	The capacitive current us proportional to the sate of change of voltage octobs it i. = (dvc dt
	Charge stored in a capacitor whose plates are maintained at constant voltage $0 = CV$
#	<u>Q - C v</u>
#	Terminologies:
	· Flectlic field othergth · Pelmittiwity of free F= V volts/m Space & = 8.854 × 10 ⁻¹² F/m
	9, 0 0 - 7, 1
	· Floctric flux density · Rolative permittivity:
	$D = Q C/m^2$
	o apacitance of parallel plate capacitos (= 808,A
	plate capacitos
	(= 40 ExA
#	a

