Definitions

Reluctance = R; Force = F; Flux = ø; Flux Density = B; Induct = L; Electromotor Force = EMF;Current = I; Flux Linkage = λ; Turns = N; Field intensity = H; field energy = wf; coenergy = wf'; Torque = T; short circuit ratio = SCR; unsat synchronous reactance = Xus; sat synch react = Xss; Line Voltage open circuit characteristic = Voc; Armature current short circuit test = Iasc; open circuit field current = AFNL; short ciruit field current = AFSC; unsat -> unsat motor region; sat -> saturated motor region..

Chapter 1 Equations

R	len/(uc*ua*A)	F	N*I
I	Ftot/N	F	H*coreLen
ua	$1.26*10^{-6}Hm^{-1}$	F	ø*R
L	N^2/Req	B	ø/A [T]
L	λ/i	Perm	1/Rtot
L	N^2(u0)(Ag)/g		

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