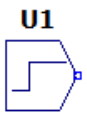
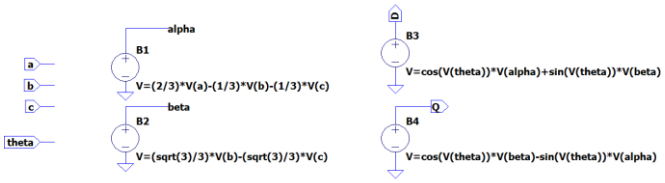
Elizabeth Devina M

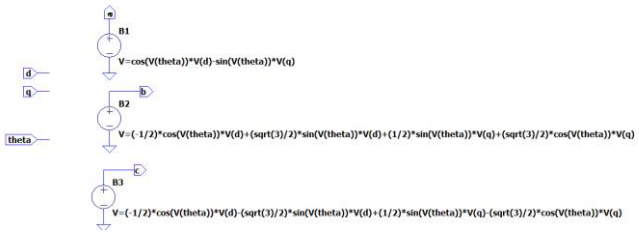
21/477912/TK/52649

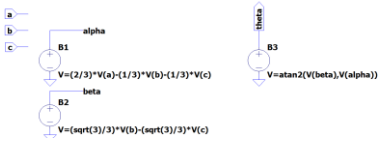
Komponen	Skematik	Lib File

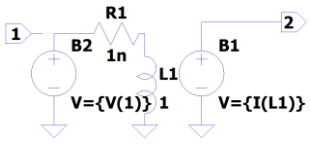
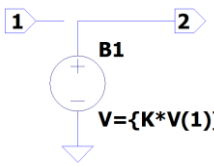
Step Function		`.subckt step out`
		`Vl out 0 PULSE(0 {A} {td} {1/SR} {1/SR} 1meg 10meg)`
		`.ends step`

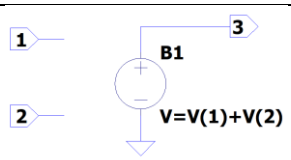
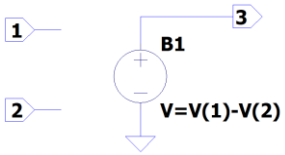
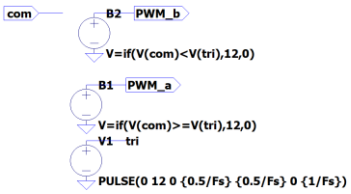
CT (Current Transformer)		`.subckt CT in+ in- out`
		`Vl in+ in- 0`
		`El out 0 value = {k*i(Vl)}`
		`.ends CT`

ABC to DQ		`.subckt abctodq a b c theta D Q`
		`B1 alpha 0 V=(2/3)*V(a)-(1/3)*V(b)-(1/3)*V(c)`
		`B2 beta 0 V=(sqrt(3)/3)*V(b)-(sqrt(3)/3)*V(c)`
		`B3 D 0 V=cos(V(theta))*V(alpha)+sin(V(theta))*V(beta)`
		`B4 Q 0 V=cos(V(theta))*V(beta)-sin(V(theta))*V(alpha)`
		`.ends abctodq`

DQ to ABC		`.subckt dqtoabc d q theta a b c`
		`B1 a 0 V=cos(V(theta))*V(d)-sin(V(theta))*V(q)`
		`B2 b 0 V=(-1/2)*cos(V(theta))*V(d)+(sqrt(3)/2)*sin(V(theta))`
		`*V(d)+(1/2)*sin(V(theta))*V(q)+(sqrt(3)/2)*cos(V(theta))*V(q)`
		`B3 c 0 V=(-1/2)*cos(V(theta))*V(d)-(sqrt(3)/2)*sin(V(theta))`
		`*V(d)+(1/2)*sin(V(theta))*V(q)-(sqrt(3)/2)*cos(V(theta))*V(q)`
		`.ends dqtoabc`

PLL		`.subckt PLL a b c theta`
		`B1 alpha 0 V=(2/3)*V(a)-(1/3)*V(b)-(1/3)*V(c)`
		`B2 beta 0 V=(sqrt(3)/3)*V(b)-(sqrt(3)/3)*V(c)`
		`B3 theta 0 V=atan2(V(beta),V(alpha))`
		`.ends PLL`

Integral		(*generate* symbol secara langsung)
Gain		(*generate* symbol secara langsung)
Adder		(*generate* symbol secara langsung)

		
Subctractor		(*generate* symbol secara langsung)
PWM		(*generate* symbol secara langsung)