

ANEXO 1

CONSTANTES DE LOS BLOQUES DE SIMULINK

%constantes de la turbina

c1=0.4654;

c2=116;

c3=0.4;

c4=5;

c5=20.24;

c6=0.08;

c7=0.035;

RT=34;%radio de hélice de turbina

daire=0.647;

n=30; %Engranajes

N=4;%Número de par de polos

ws= 2*pi*60;

Rs=0.0067;

Lm=2.3161/ws;

Lss=0.03/ws;

Rr=0.0058;

Lrr=0.0506/ws;

Ls=Lss+Lm;

Lr=Lrr+Lm;

%Voltaje eficaz fase a fase

veficaz=690

%vmax=veficaz*sqrt(2)/sqrt(3)

Pn=660000

%constantes del modelo del generador de parte eléctrica

a=(Rs*Lr)/(Ls*Lr-(Lm)^2);

b=(Rs*Lm)/(Ls*Lr-(Lm)^2);

c=(Rr*Lm)/(Ls*Lr-Lm^2);

d=(Rr*Ls)/(Ls*Lr-Lm^2);

e=Lr/(Ls*Lr-(Lm)^2);

f=Lm/(Ls*Lr-(Lm)^2);

g=Ls/(Ls*Lr-Lm^2);

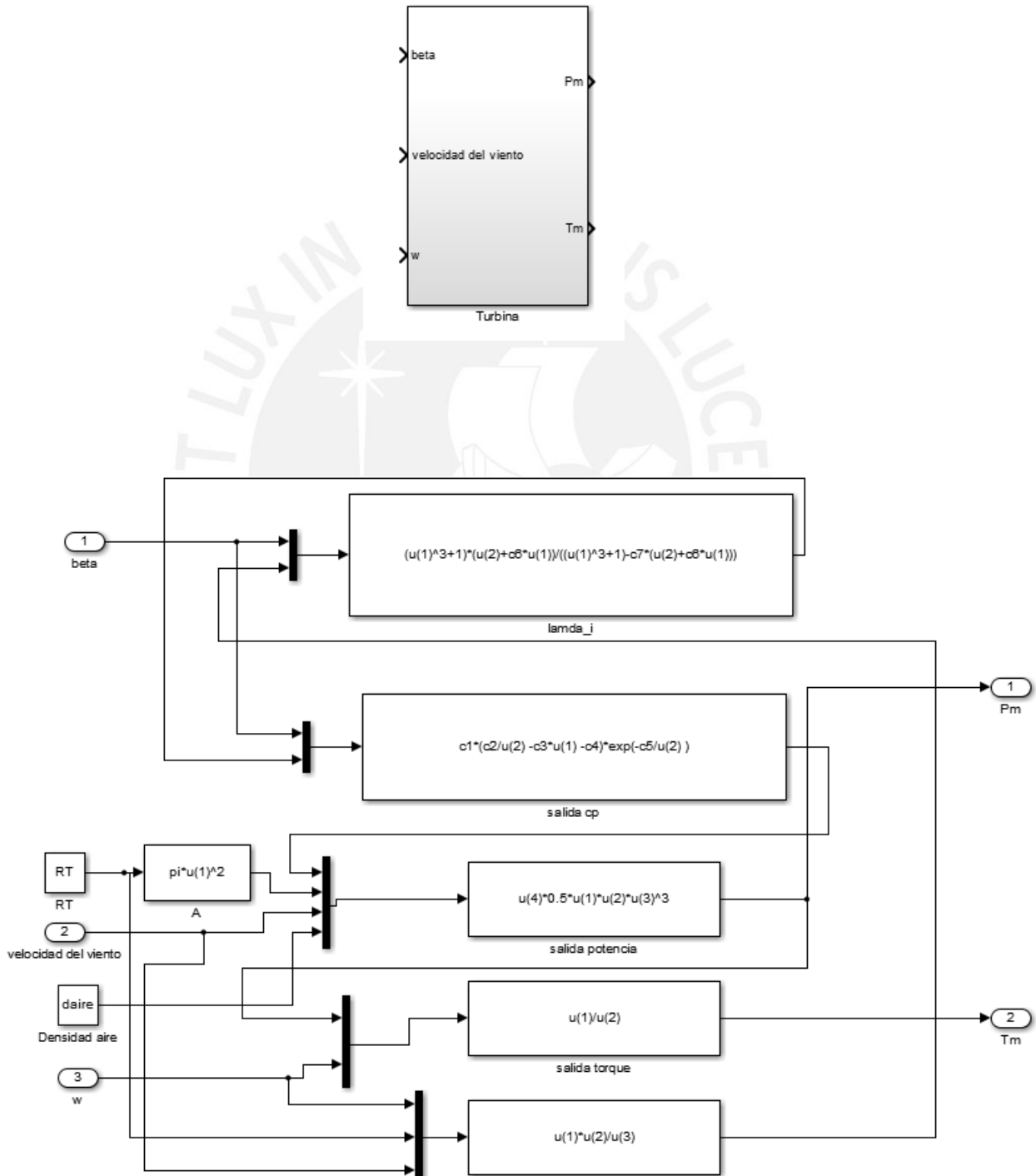
%constantes del modelo del generador de parte mecánica

J=1777.

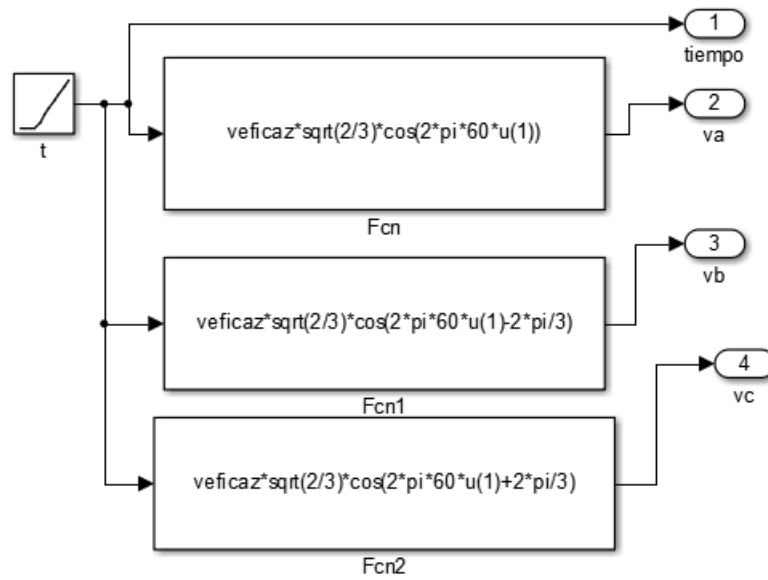
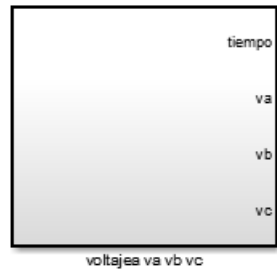
ANEXO 2

DIAGRAMAS DE SIMULINK

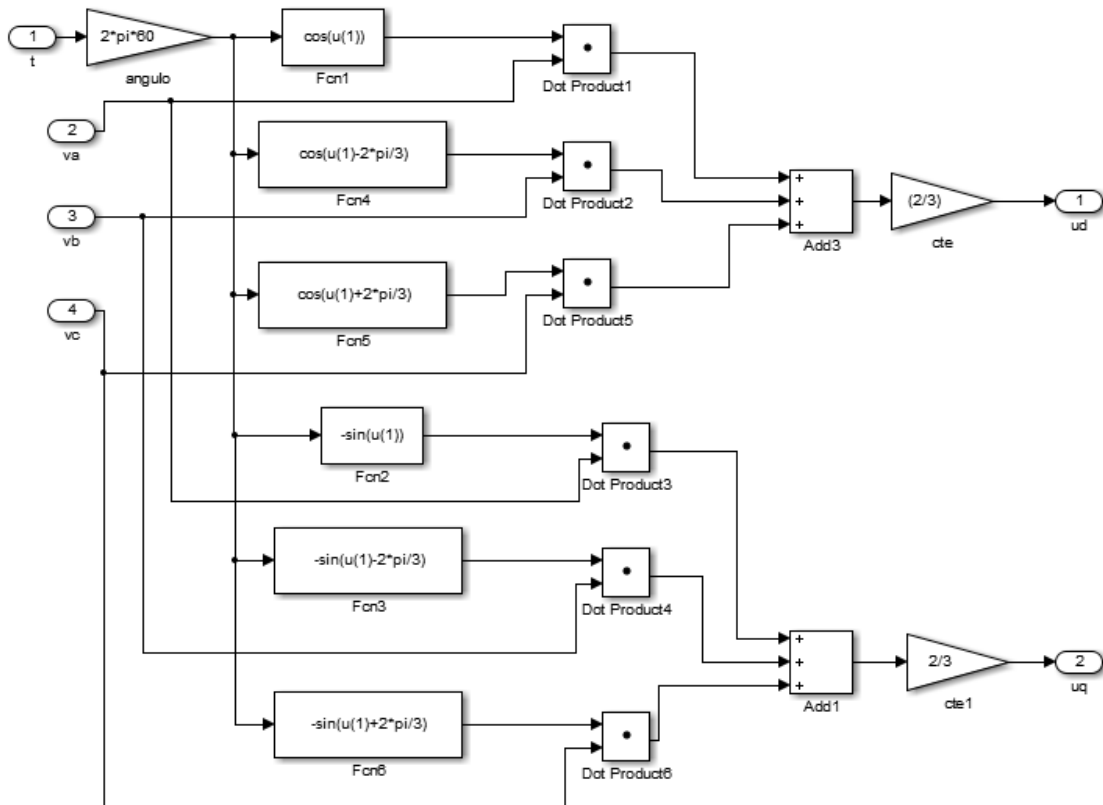
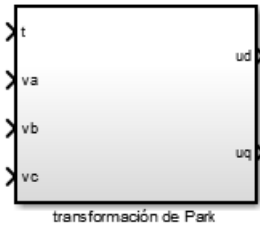
1. DIAGRAMA DE TURBINA EN SIMULINK



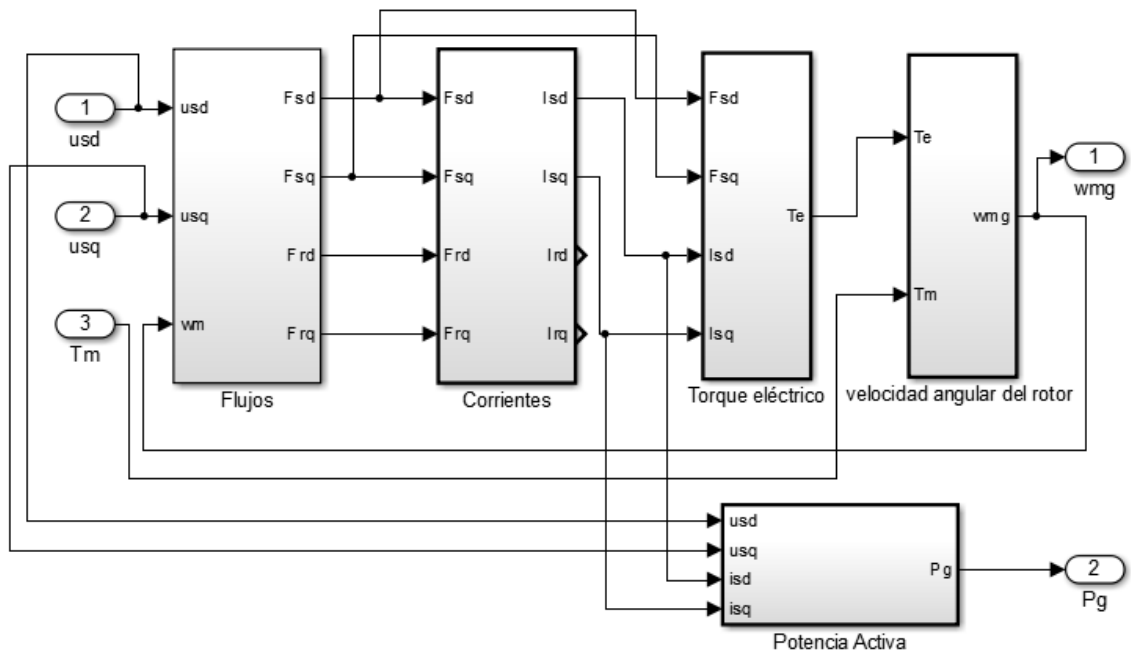
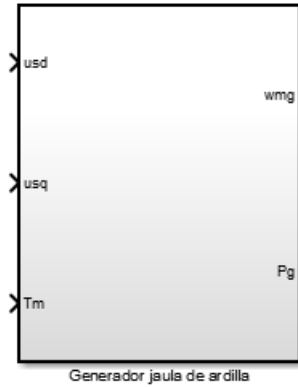
2. DIAGRAMA DE VOLTAJES EN SIMULINK



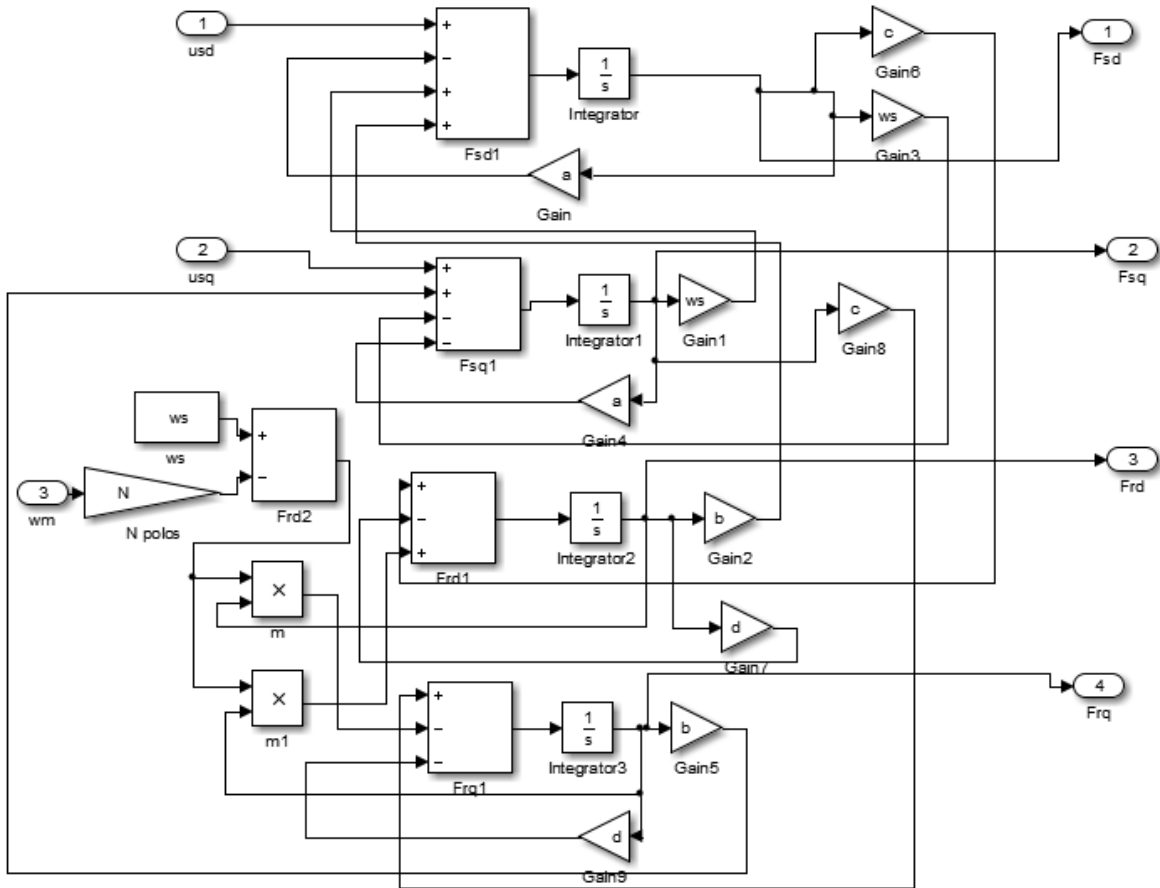
3. DIAGRAMA DE TRANSFORMACIÓN DE PARK EN SIMULINK



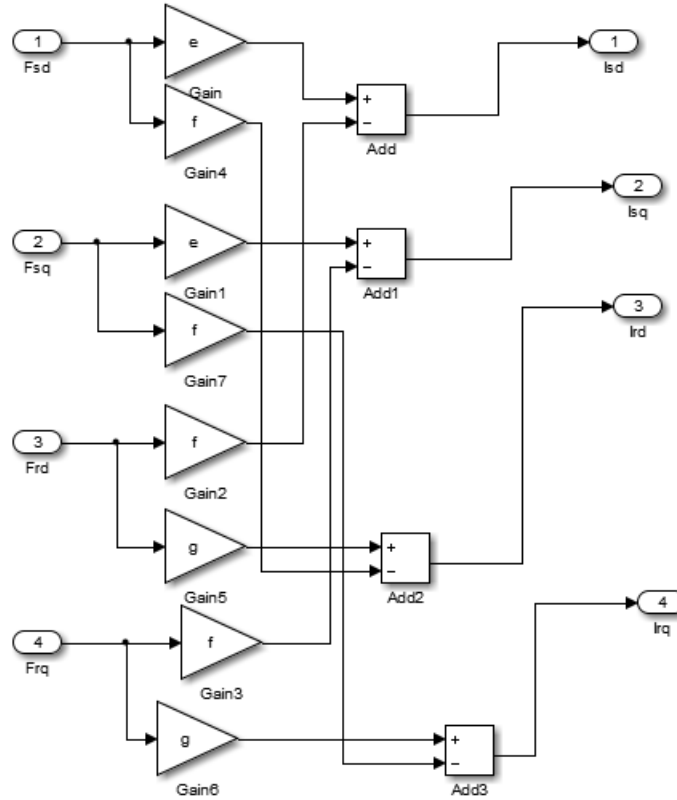
4. DIAGRAMA DEL GENERADOR JAULA DE ARDILLA EN SIMULINK



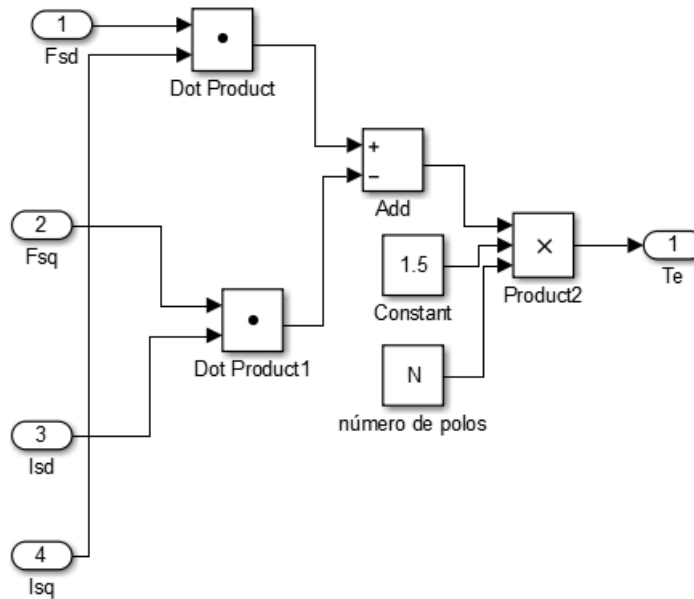
4.1 DIAGRAMA DEL BLOQUE 1 FLUJOS EN SIMULINK



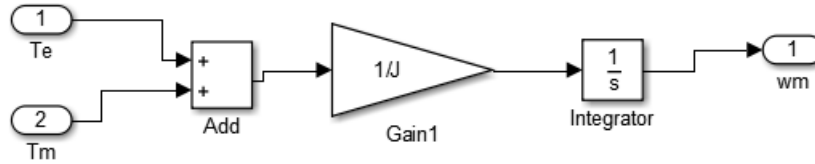
4.2 DIAGRAMA DEL BLOQUE 2 CORRIENTES EN SIMULINK



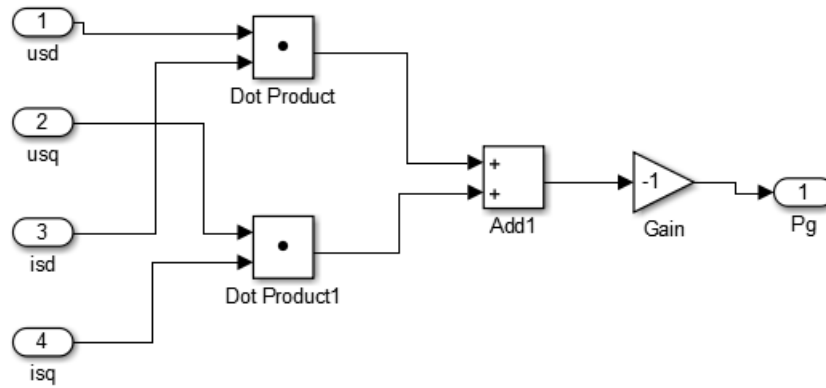
4.3 DIAGRAMA DEL BLOQUE 3 TORQUE ELÉCTRICO EN SIMULINK



4.4 DIAGRAMA DEL BLOQUE 4 VELOCIDAD ANGULAR EN SIMULINK



4.5 DIAGRAMA DEL BLOQUE 5 POTENCIA EN SIMULINK



5. DIAGRAMA DEL ACTUADOR DE VARIACIÓN DE ÁNGULO DE PASO EN SIMULINK

