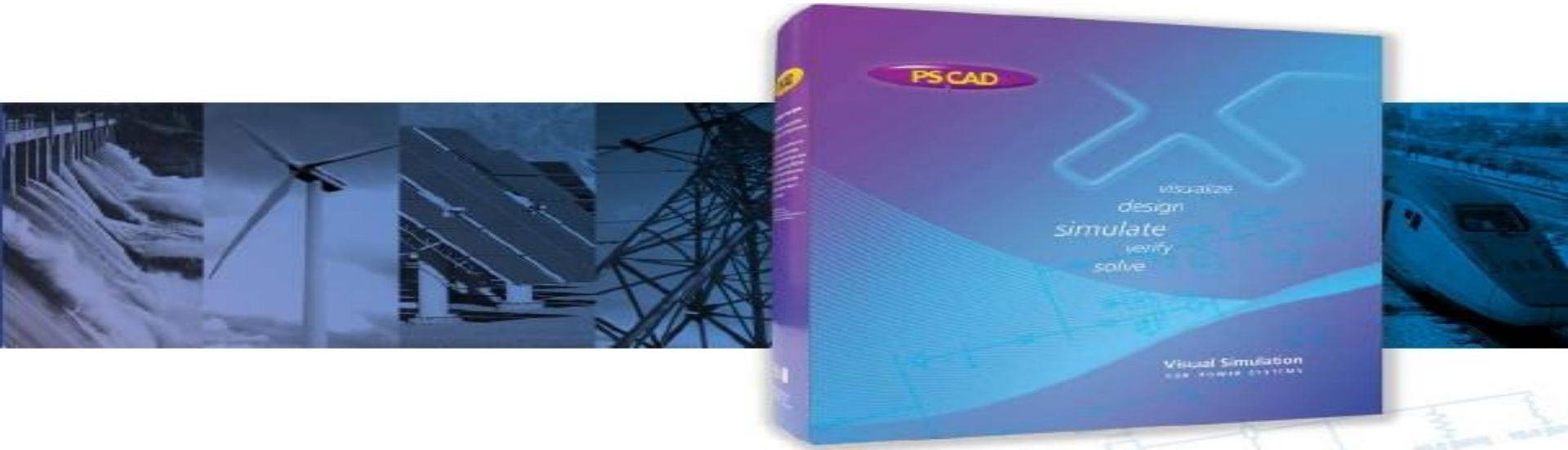
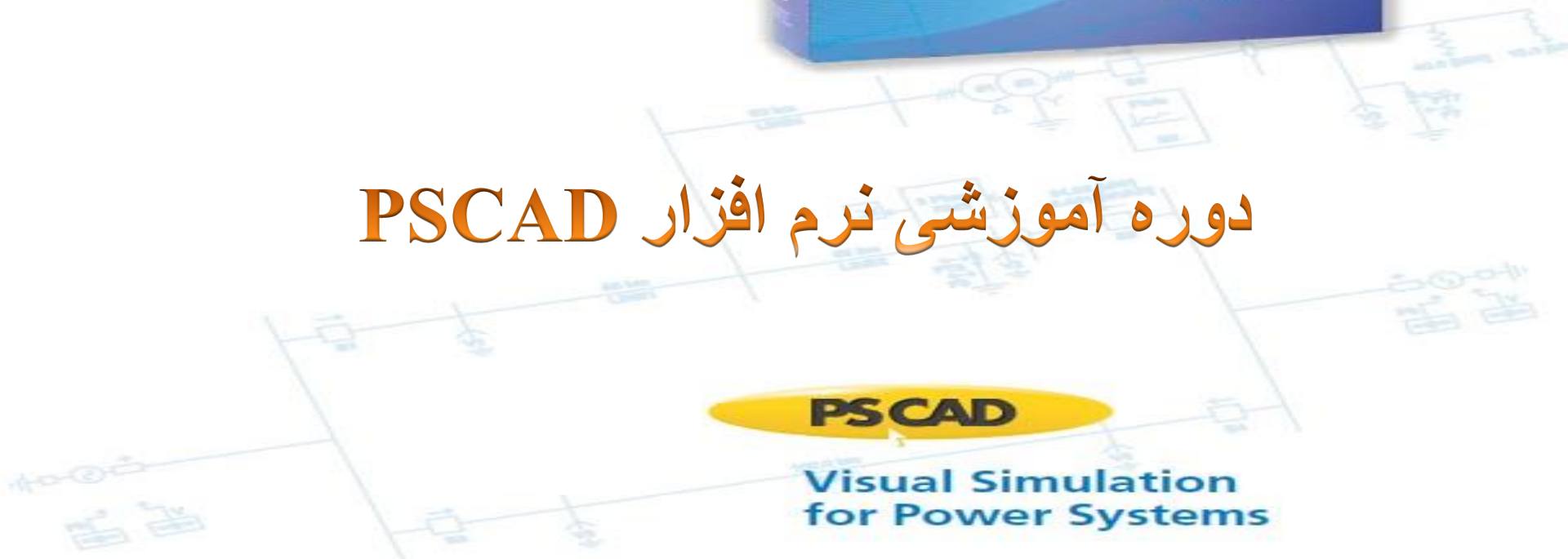


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



دوره آموزشی نرم افزار PSCAD



فهرست مطالب

Single Phase Controlled Rectifier

Phase Controlled AC Switch

Full Single Phase Rectifier

Three Phase Controlled Rectifier

Single Phase PWM Inverter

Three Phase PWM Inverter

آشنایی با امکانات و کتابخانه نرم افزار

مدلسازی سیستم قدرت

بررسی خطاهای تکفاز و سه فاز در سیستم قدرت

شبیه سازی یکسوسازها

شبیه سازی مبدل ۶ پالسه

شبیه سازی اینورتر PWM

ساخت Page Module

ساخت New Component

مقدمه ای بر برنامه نویسی در PSCAD

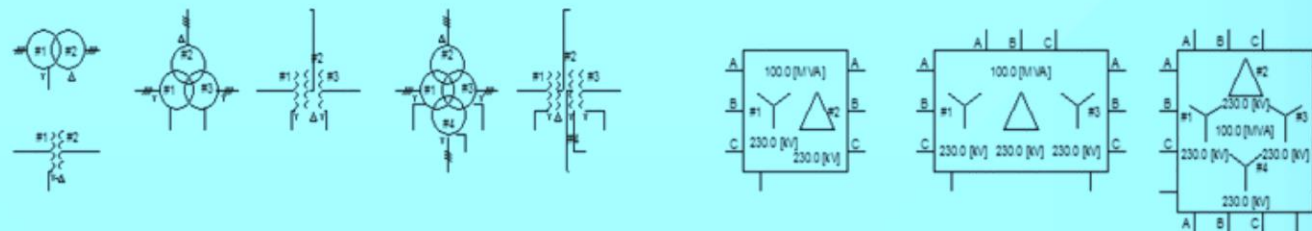
master (Master Library)

1: [Main] Main Page

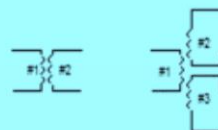
- ☐ 1: [Passive] RLC Branches and
- ☐ 1: [Sources] Current and Voltage
- ☐ 1: [Meters] Voltmeter, Ammeter, I
- ☐ 1: [I/O_Devices] Slider, switch, I
- ☐ 1: [Transformers] Power Transfo
- ☐ 1: [Breakers_Faults] Breakers &
- ☐ 1: [Lines] Transmission Lines
- ☐ 1: [Cables] Coax Underground C
- ☐ 1: [PI_sections]
- ☐ 1: [Machines] Rotating Machine
- ☐ 1: [HVDC_FACTS_PE] HVDC, F
- ☐ 1: [CSMF] Control Systems Mode
- ☐ 1: [Miscellaneous] Miscellaneous
- ☐ 1: [Logical] Logic Circuits
- ☐ 1: [Sequencer] Sequencer Comp
- ☐ 1: [Protection] Relays & Instrume
- ☐ 1: [Imports_Exports_Labels]
- ☐ 1: [Data_recorders_Readers] Ex

Derivations

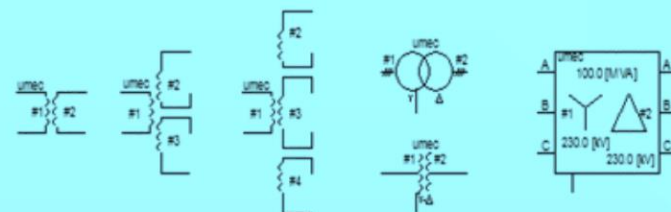
- ☒ simplepowersystem
- ☒ Powersystem



Three Phase Transformer Models
(Constructed using Single Phase Units)

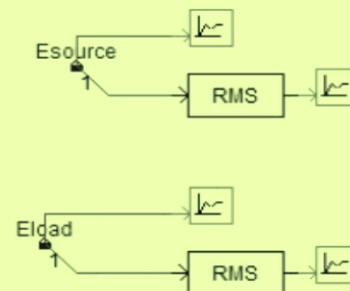
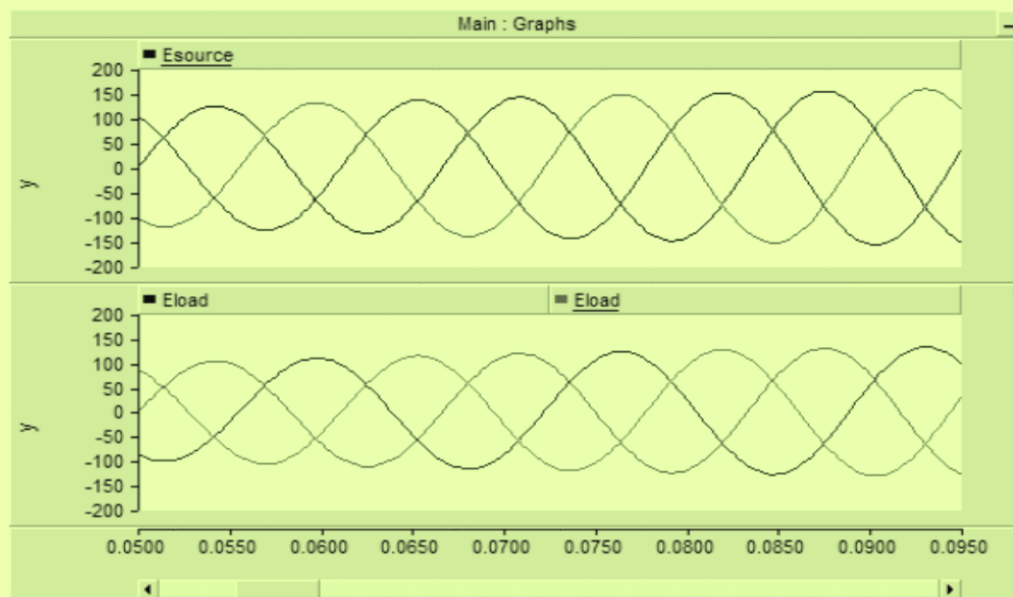
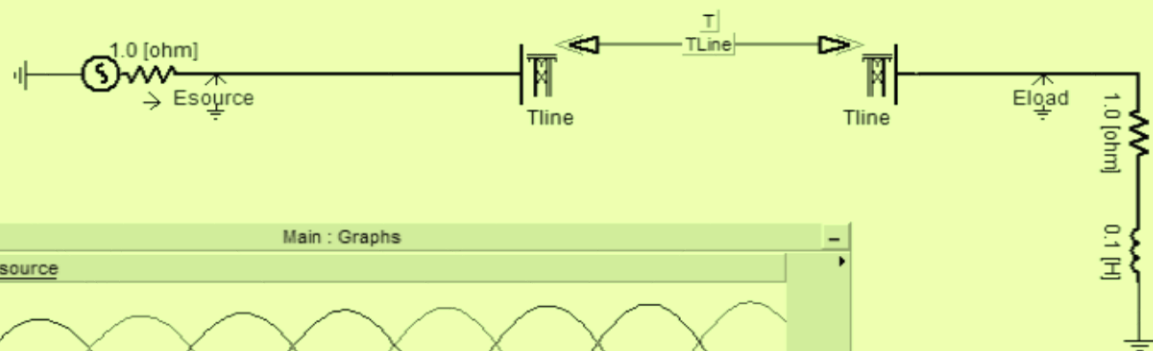


Single Phase Transformer Models
(these can be assembled in any configuration)



UMEC "Unified Magnetic Equivalent Circuit"
Transformer Models

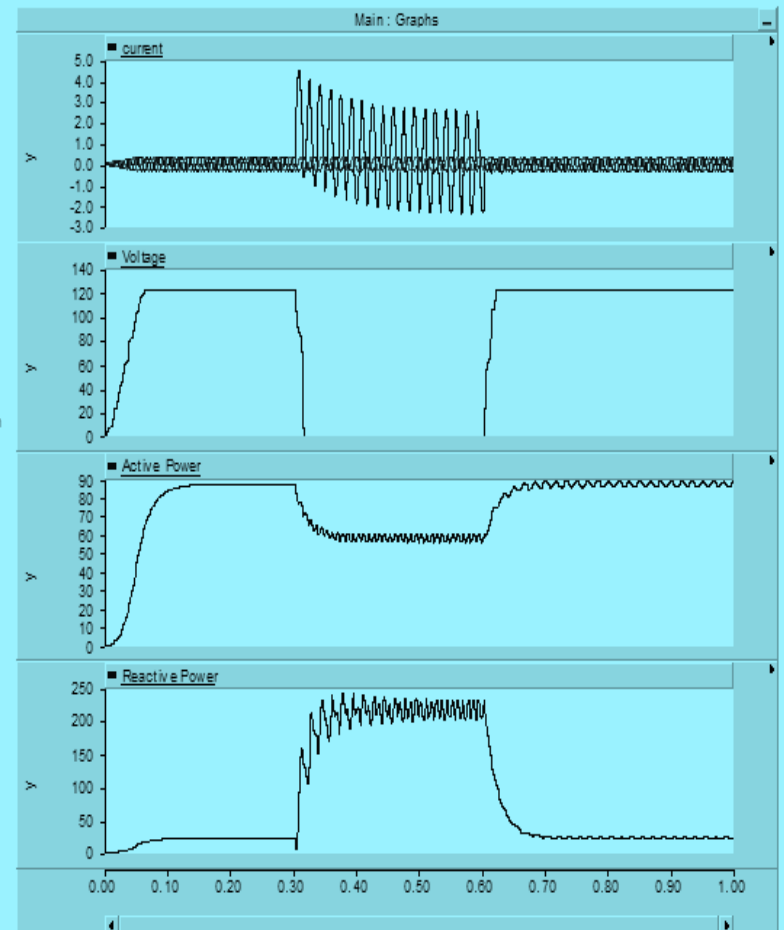
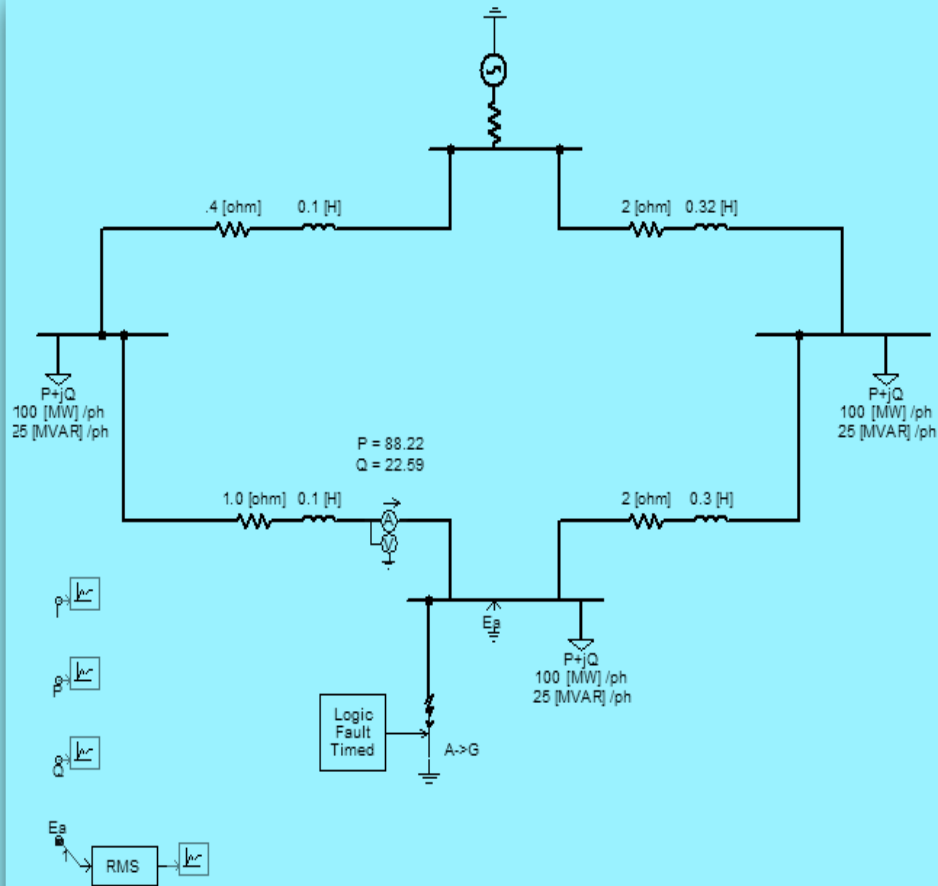
مدل سازی سیستم قدرت



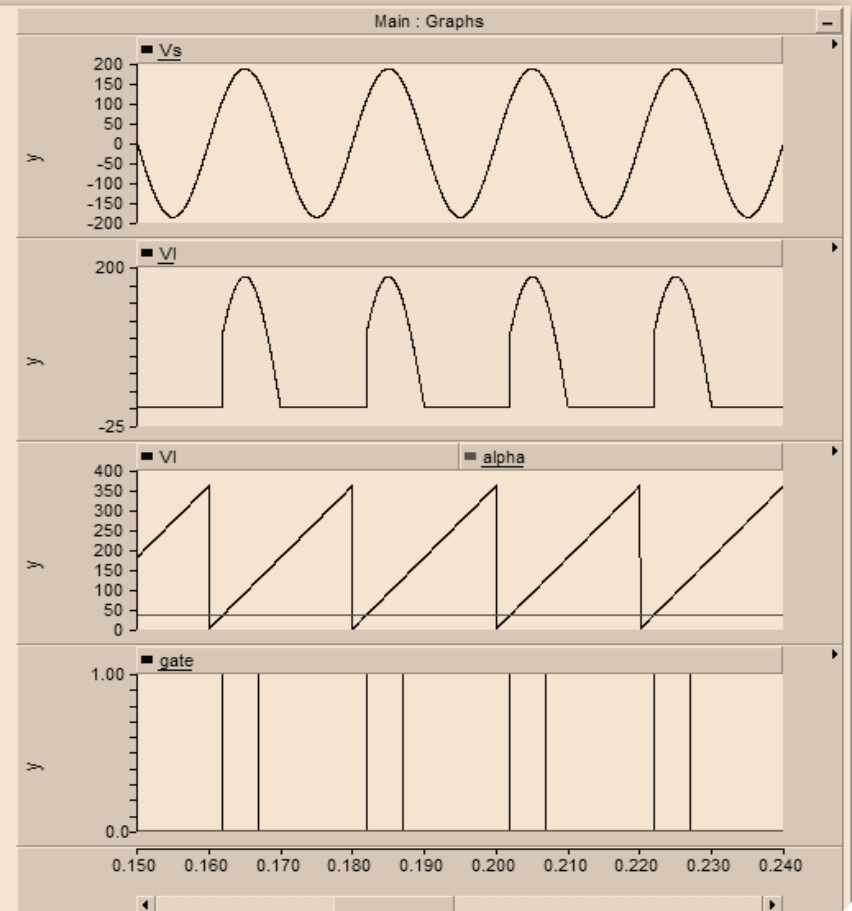
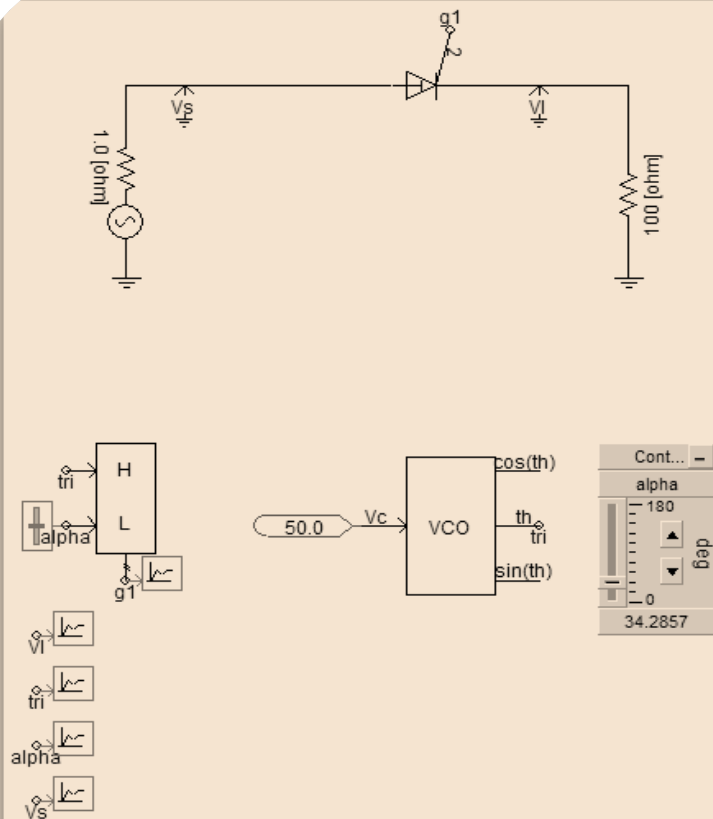
Main : Controls

Esrms	Elrms
130.933	109.491

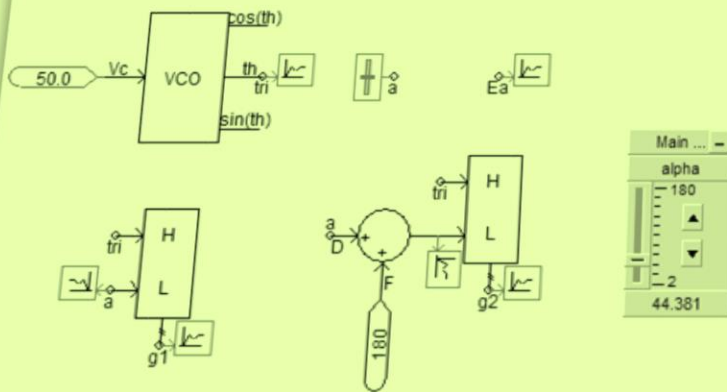
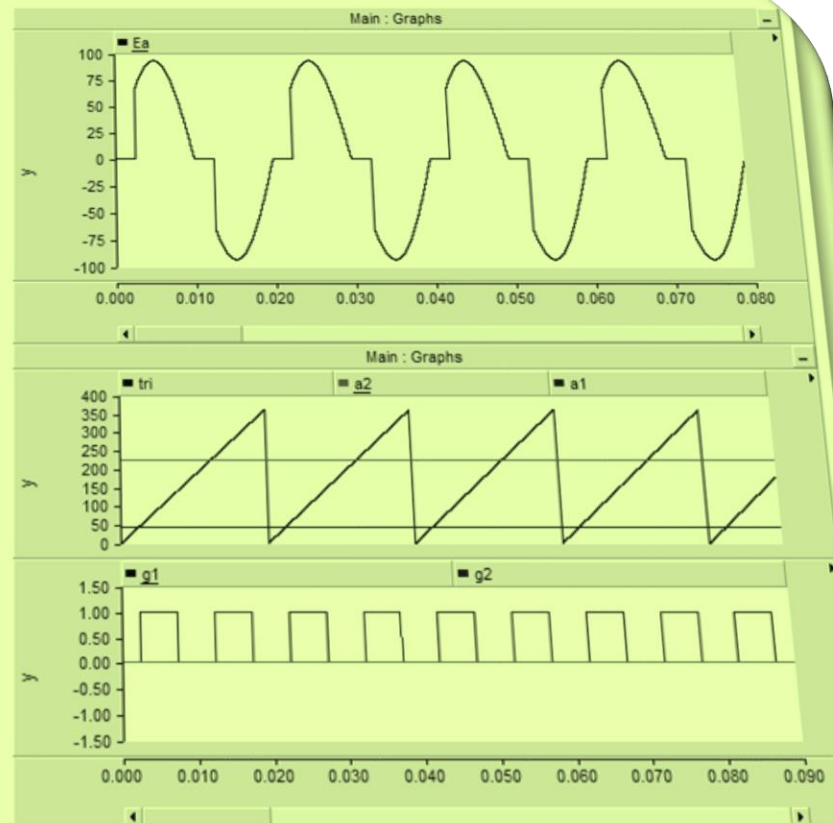
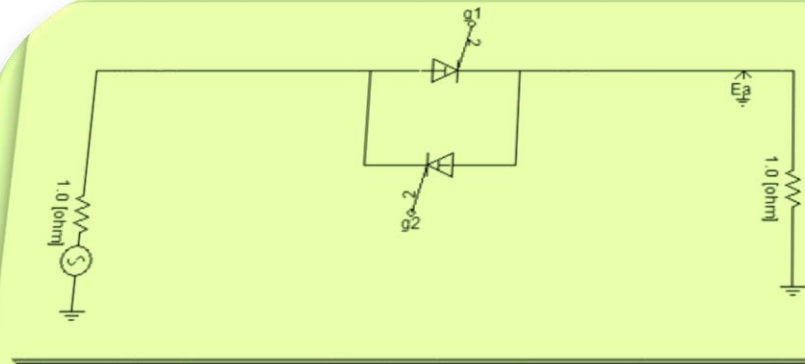
بررسی خطاهای تکفاز و سه فاز در سیستم قدرت



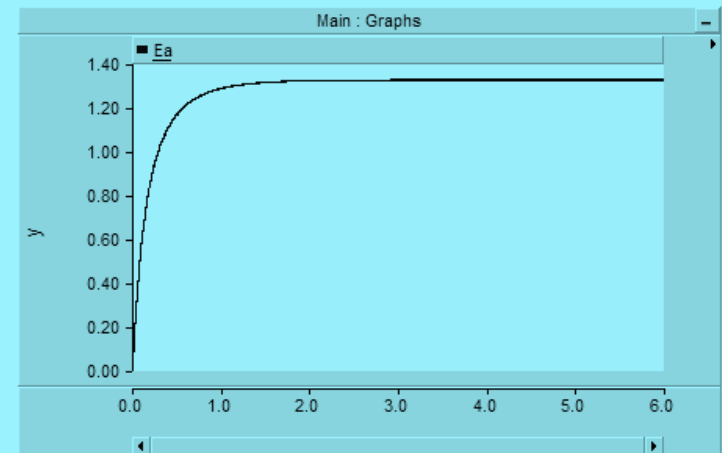
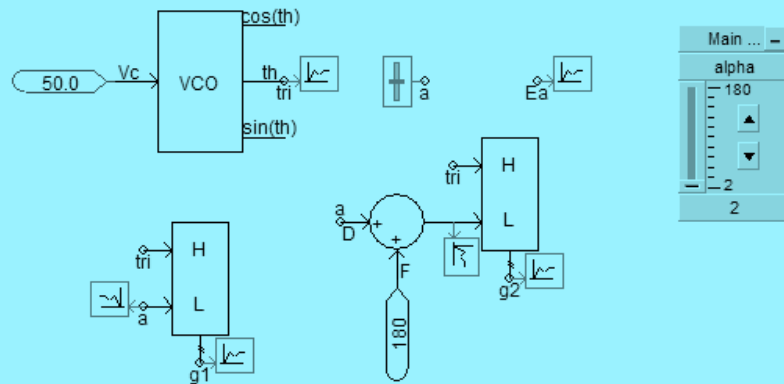
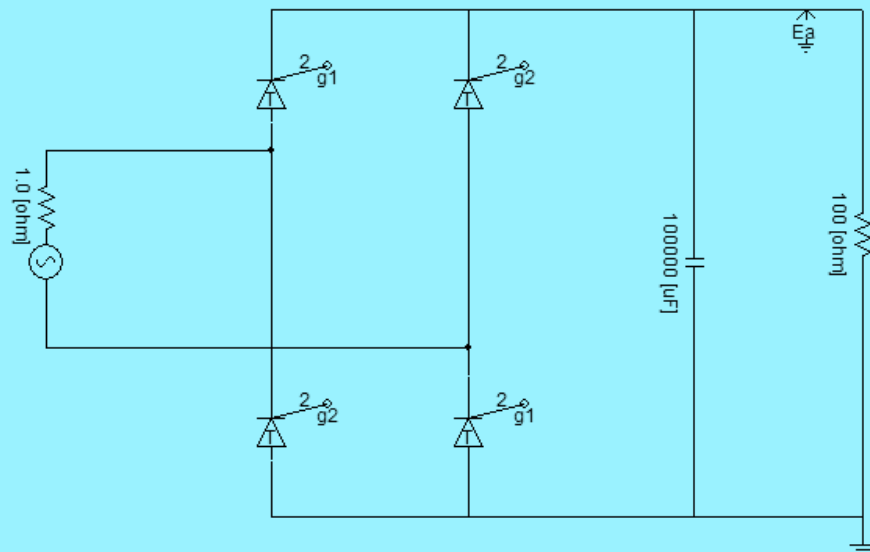
Single Phase Controlled Rectifier



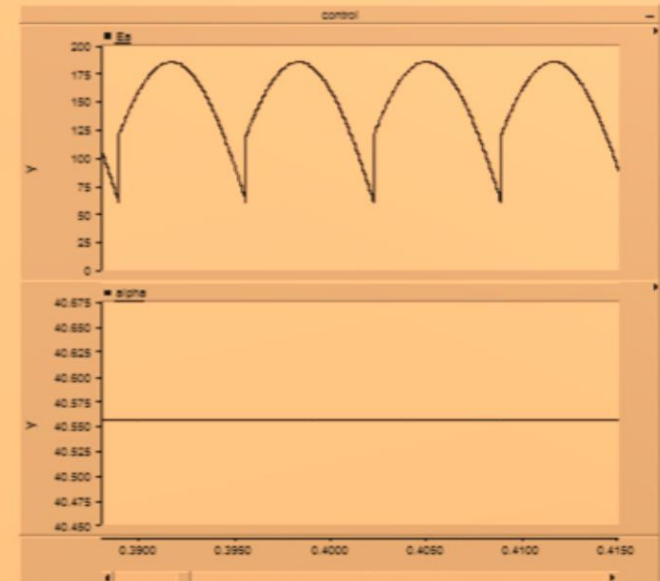
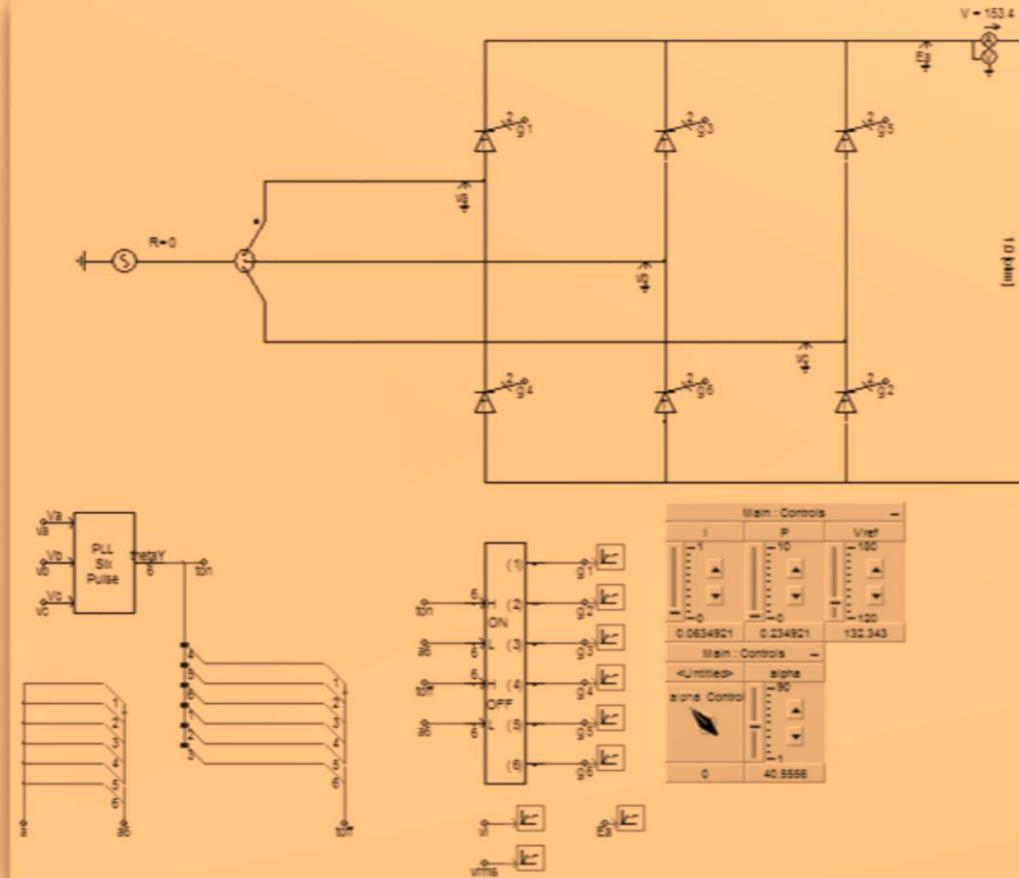
Phase Controlled AC Switch



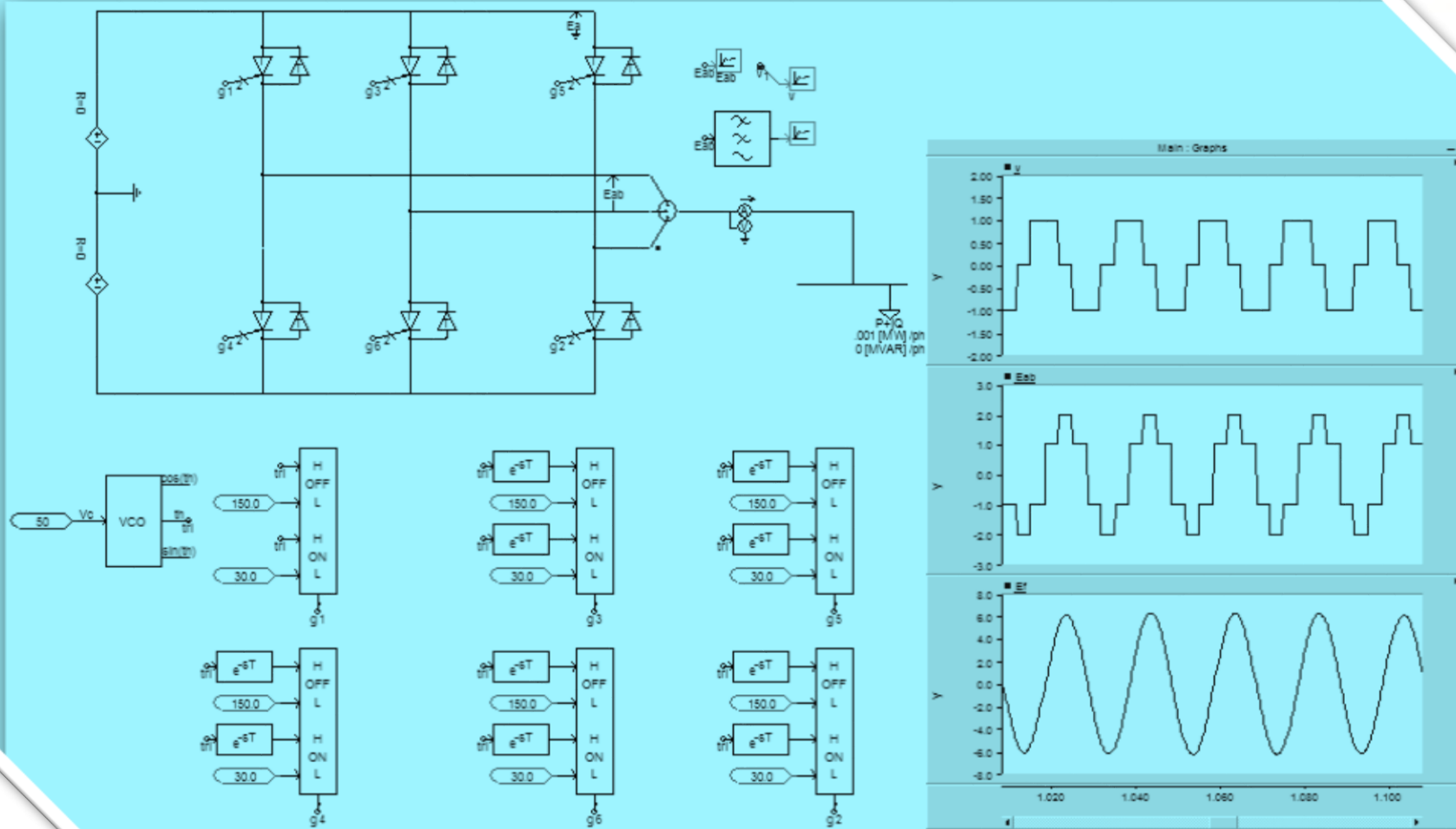
Full Single Phase Rectifier



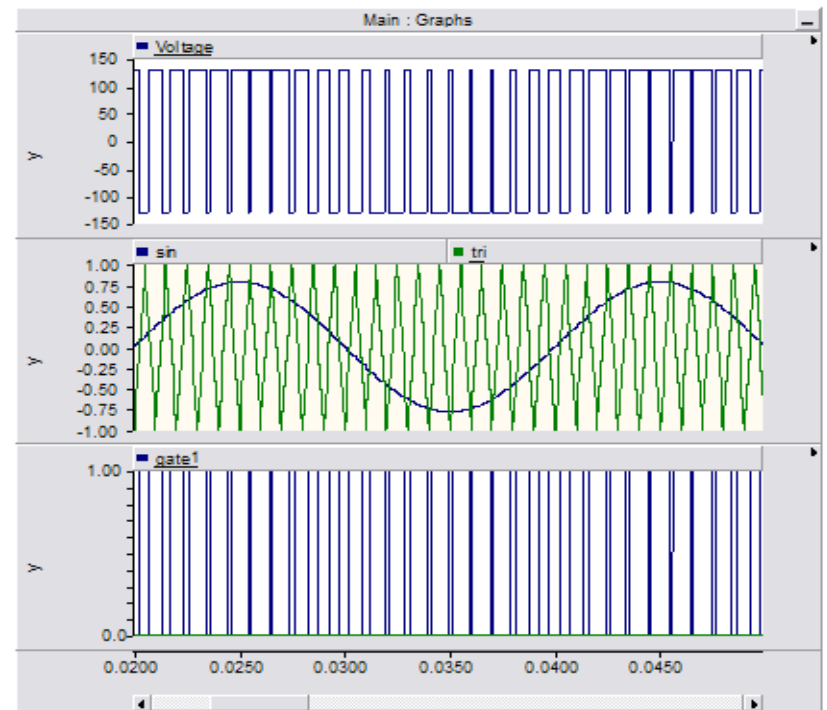
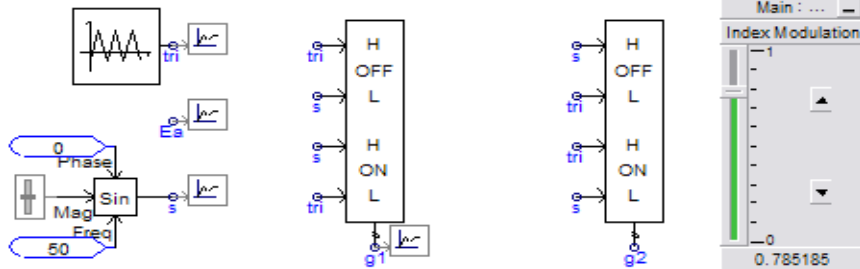
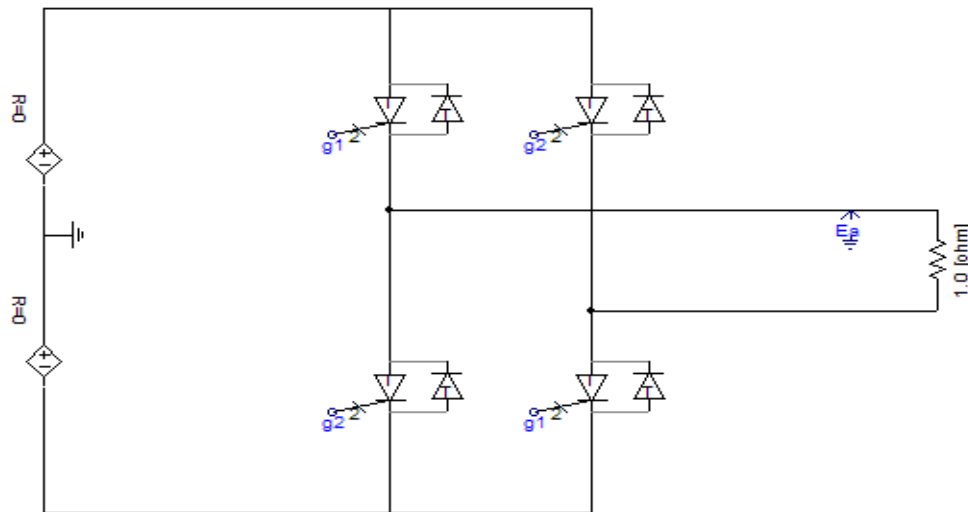
Three Phase Controlled Rectifier



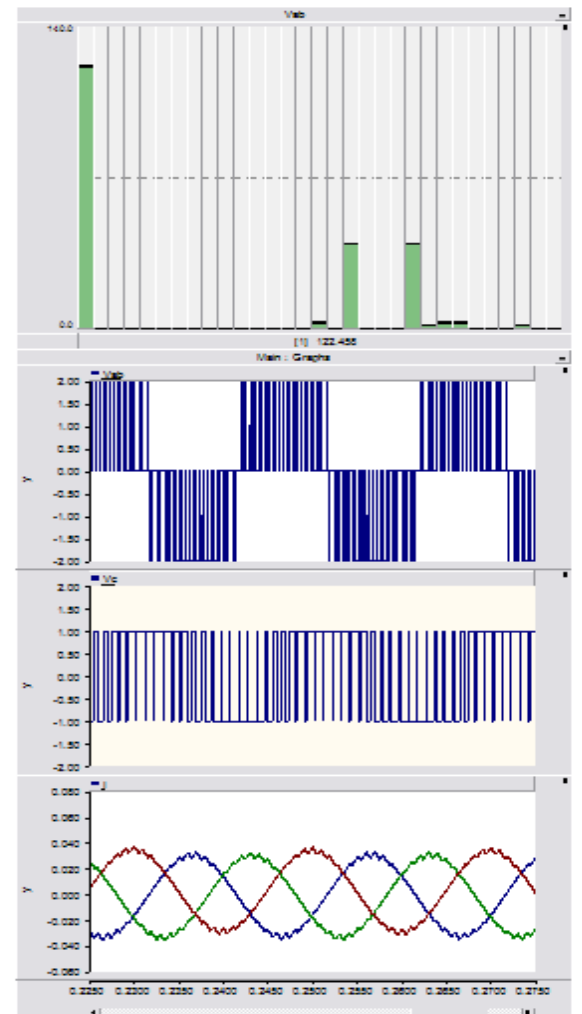
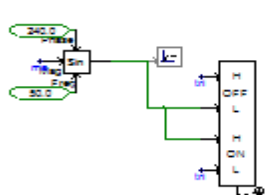
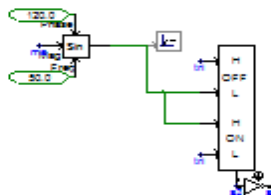
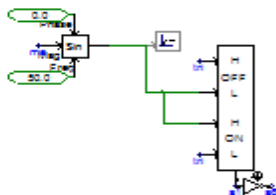
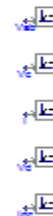
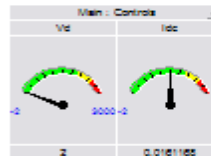
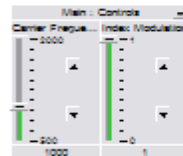
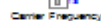
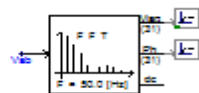
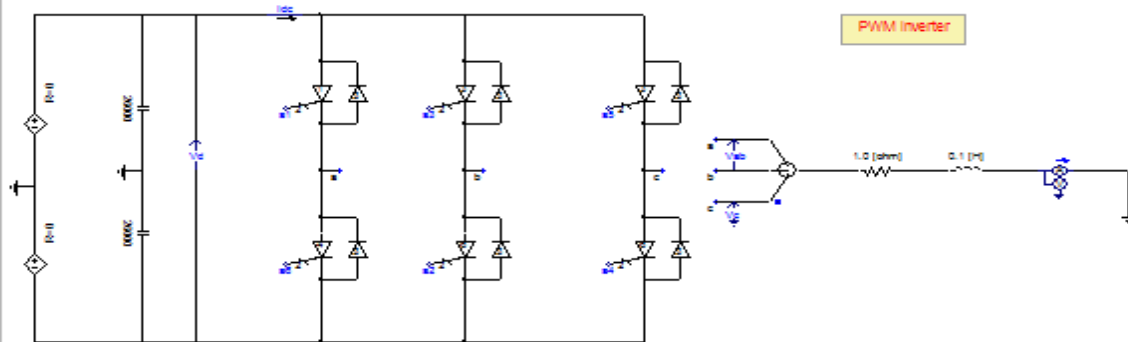
شبیه سازی مبدل ۶ پالسه

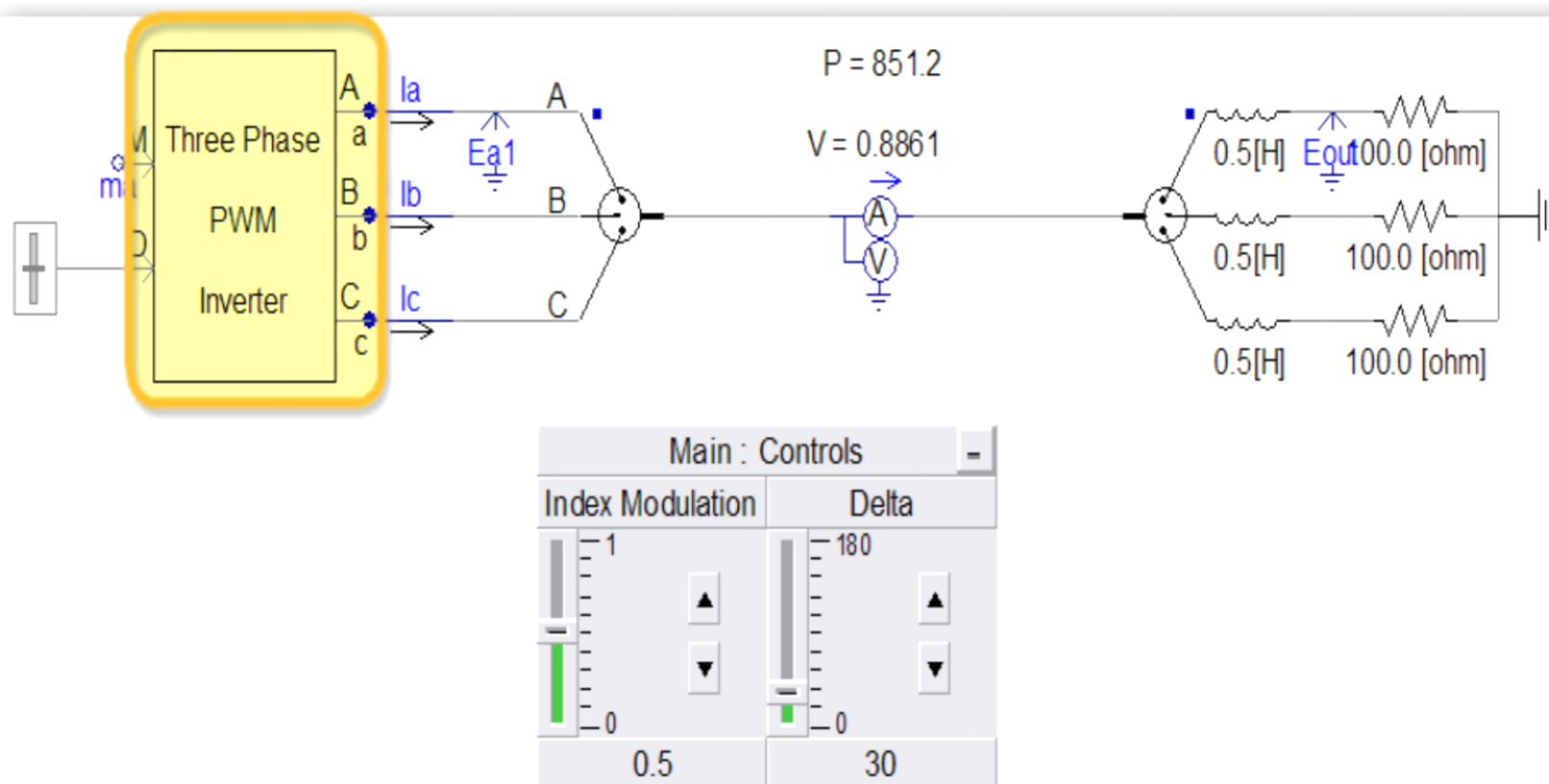


Single Phase PWM Inverter

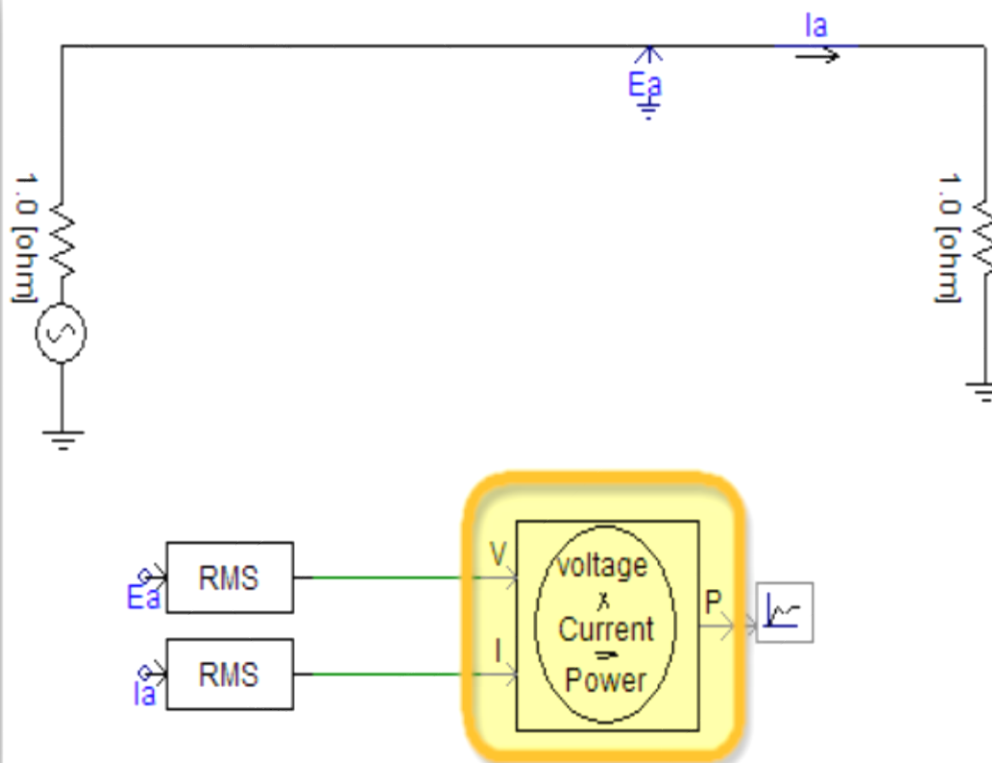


Three Phase PWM Inverter





ساخت New Component



[PowerMeasurement]

X

gain
▼

gain

1

turn device on

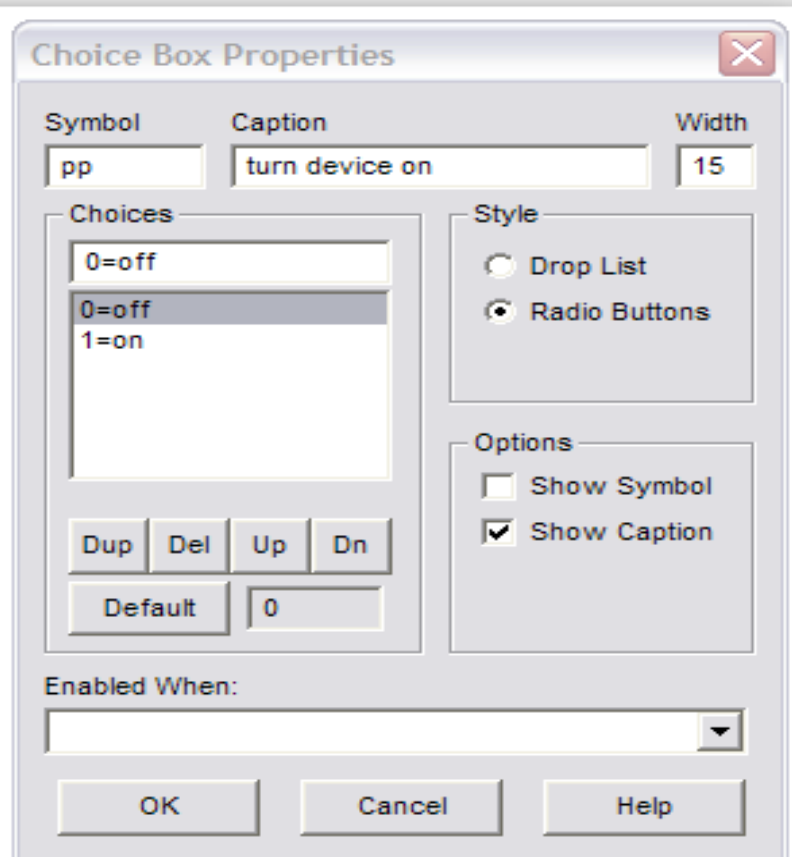
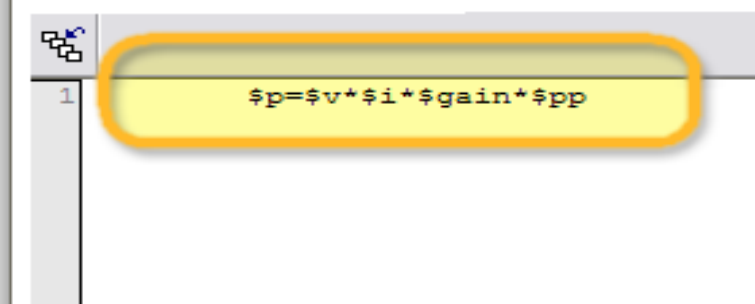
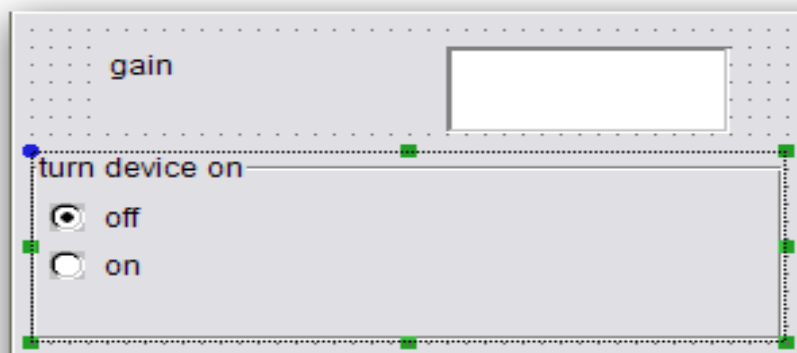
☐ off
☒ on

OK

Cancel

Help...

مقدمه ای بر برنامه نویسی در PSCAD



Thanks