O=1(A)

HAN	NAN	WAN.
Home Area Nelo	Neighborhood Aven Networ	wide Area Network
-> Corrid tie		O colonte
Inverted	Distribution feeder	> Power Plants
→ Zig Bee	Ds L	LTE.
Jagbee is used to communicate The grid till inverter with home appliances within HAN	the distribution feeders within	LTE based technology Com be used within NAN to manage The power plant Production and control.

0=1(B).

DNP3 (Distributed Network Protocol) is

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set of Protocol developed for hardware equipment Communication.

-> DNP3 use Master Slave topology to Communicate for different hardwere Setup.

- > In Grid Station of Communication is happened byw Relay and CT. PT.

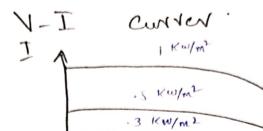
 Then Relay act as Master and .

 CT. PT act as Slave.
- → CT, PT act as slave always.

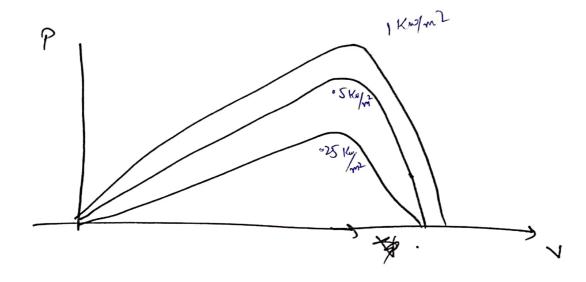
 Send message without Reguest.

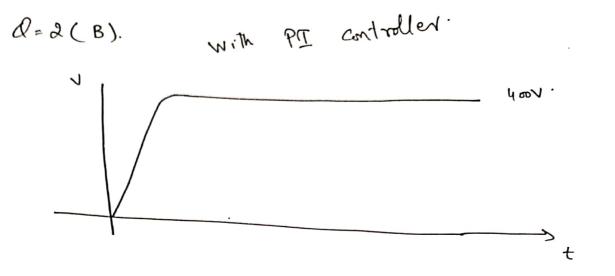
Q=2 (A).

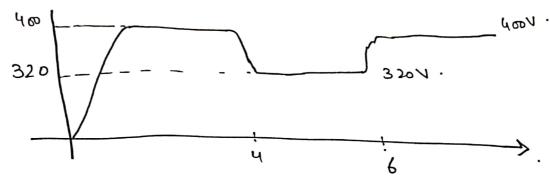
Varrying Irradiance.

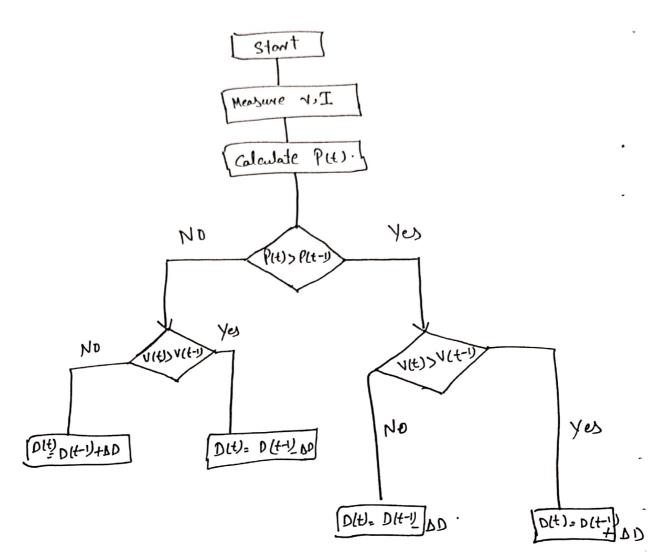


P_V curves:









Case 1:

DP>0 DV < 0

0-00

Cas 2:

DPJ0

D1>0

OA+O

D+DD

Nd-VC1

TL1

Nd-(ud-vo)

Nd-(ud-vo)

Nd-(ud-vo)

No/4

No/4

The North Market No/4

No/4

Cose 3

DP Z

DV L

Cose 4

DV >

DPL

$$\begin{bmatrix} Va \\ Va \end{bmatrix} = \sqrt{\frac{1}{3}} \begin{bmatrix} 150 \\ 173.2 \end{bmatrix} = \begin{bmatrix} 122.47 \\ 141.41 \end{bmatrix}$$

$$\sqrt{x} = 187.07$$

$$U = \frac{187.07}{600} = .311$$

$$0 = \tan^{-1} \left(\frac{141.41}{122.47} \right) = 49.1$$

$$t_{a} = .311 \left(\cos 49.1 - \sqrt{53} \sin 49.1 \right)$$

= .311(.2182) = .067

$$tb = .21$$

$$fa = .067 \times 100 \text{ MS} = 6.7 \text{ MS}$$

$$\Rightarrow tb = 27 \text{ MS}$$

$$to = 66.3 \text{ MS}$$