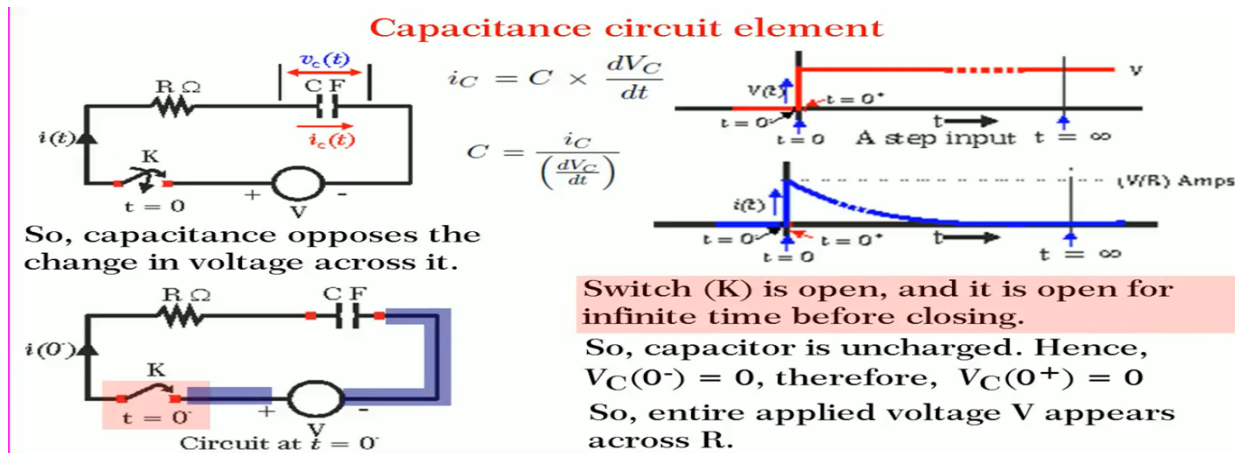


DAILY ASSESSMENT FORMAT

Date:	3 JUNE 2020	Name:	HARSHITHA H
Course:	ELECTRICAL NETWORK THEORY	USN:	4AL18EC020
Topic:	1.Evaluation of initial and final conditions in RL, RC and RLC circuits 2. 2- port networks	Semester & Section:	IV SEM & A SECTION
Github Repository:	harshithah		

FORENOON SESSION DETAILS

Image of session



Introduction to Two-Port Networks

Two Port Network

Any linear circuit with two pair of terminals can be regarded as two-port network provided that it does not contain independent source and satisfies the port condition.

The diagram shows a central box labeled "Two Port Network". To the left, two horizontal lines represent "Port 1". To the right, two horizontal lines represent "Port 2".

3:37 / 5:41

Scroll for details

ALL ABOUT ELECTRONICS

Y- Parameters Explained | Condition of Reciprocity and Symmetry for Y-Parameters

Suggested: Op-Amp (Operational Amplifier)

Reciprocal Network

A Two-Port network is said to be a Reciprocal network, if the ratio of excitation at one port to the response at other port is same, if the excitation and the response are interchanged.

Condition for Reciprocity $Y_{12} = Y_{21}$

$$\begin{bmatrix} Y_{11} & Y_{12} \\ Y_{21} & Y_{22} \end{bmatrix}$$

7:45 / 14:27

Scroll for details

ALL ABOUT ELECTRONICS

Report –

ELECTRICAL NETWORK THEORY

TOPICS COVERED:

1. Evaluation of initial and final conditions in RL, RC and RLC circuits:

- Behavior of:
 - Resistance
 - Inductance
 - Capacitance
- Numerical examples

2. Two-Port networks:

- Two-ports and impedance parameters two-port concept, impedance parameters, reciprocal networks .
 - Admittance, hybrid, and transmission parameters admittance parameters, hybrid parameters, transmission parameters, parameter conversion .
 - Circuit analysis with two-ports terminated two-ports, two-ports in cascade, two-ports in series, two-ports in parallel.
 - Two-ports and impedance parameters.
-
- **Two-port network/OP-AMP**
 - **Z-Parameters**
 - **Y-Parameters**
 - **h-Parameters**
 - **ABCD Parameters**
 - Numerical examples

Date:3 JUNE 2020	Name:HARSHITHA H
Course: PYTHON	USN: 4AL18EC020
Topic: Application 8: Build a Web-based Financial Graph	Semester & Section: IV SEM & A SECTION

AFTERNOON SESSION DETAILS

Image of session

247. Downloading Datasets with Python

```
In [1]: from pandas_datareader import data
```

```
In [4]: data.DataReader?
```

```
In [ ]:
```

Signature: data.DataReader(name, data_source=None, start=None, end=None, retry_count=3, pause=0.001, session=None)
Docstring:
Imports data from a number of online sources.
Currently supports Yahoo! Finance, Google Finance, St. Louis FED (FRED)
and Kenneth French's data library.
Parameters

name : str or list of str
The name of the dataset. Some data sources (yahoo, google, fred) will
accept a list of names.
data_source : (str, None)
The data source ("yahoo", "yahoo-actions", "google", "fred", or "fred")
start : (datetime, None)
Left boundary for range (defaults to 1/1/2010)
end : (datetime, None)
Right boundary for range (defaults to today)
retry_count : (int, 3)
Number of times to retry query request.

249. Stock Market Data Candlestick Charts

Example Candlestick Chart

Date	Open	High	Low	Close	Volume	Adj Close
2016-03-01	703.619995	718.809998	699.770020	718.809998	2147400	718.809998
2016-03-02	719.000000	720.000000	712.000000	718.849976	1627800	718.849976
2016-03-03	718.679993	719.450012	706.020020	712.419983	1956800	712.419983
2016-03-04	714.989990	716.489990	706.020020	710.890015	1967900	710.890015
2016-03-07	706.963024	708.091003	696.900024	696.169973	2985100	696.169973
2016-03-08	688.590027	703.789978	685.340027	693.969971	2063400	693.969971

251. Candlestick Charts with Bokeh Rectangles

Date	Open	High	Low	Close	Volume	Adj Close
2016-03-07	706.960024	708.091003	696.900024	696.169973	2985100	696.169973
2016-03-08	688.590027	703.789978	685.340027	693.969971	2063400	693.969971
2016-03-09	698.469971	705.679993	694.000000	705.239990	1416700	705.239990
2016-03-10	708.119995	716.440002	703.369985	712.820007	2824000	712.820007

```
In [9]: df.index[df.Close > df.Open]
```

```
Out[9]: DatetimeIndex(['2016-03-01', '2016-03-08', '2016-03-09', '2016-03-10'], dtype='datetime64[ns]', name='Date', freq=None)
```

```
In [11]: p.figure(x_axis_type='datetime', width=1000, height=300)
```

```
p.title("Candlestick Chart")
```

```
hours_12=12*60*60*1000
```

```
p.rect(df.index[df.Close > df.Open], (df.Open-df.Close)/2,
```

```
hours_12, abs(df.Open-df.Close), fill_color="green", line_color="black")
```

```
p.rect(df.index[df.Close < df.Open], (df.Open-df.Close)/2,
```

```
hours_12, abs(df.Open-df.Close), fill_color="green", line_color="black")
```

```
output_file("CS.html")
```

```
show(p)
```

Report –

PYTHON:

Application 8: Build a Web-based Financial Graph:

- Downloading datasets with Python
- Stock market data
- Stock market data Candlestick charts
- Candlestick charts with Bokeh rectangles
- Candlestick Segments
- Stylizing the chart
- Concept behind Embedding Bokeh charts in a Flask webpage
- Embedding Bokeh chart in webpage
- Deploying the chart website to a Live server