

DAILY ASSESSMENT FORMAT

Date:	03-06-2020	Name:	Neha T
Course:	Network Theory	USN:	4AL18EC035
Topic:	Initial and Final conditions Two-Port Network	Semester & Section:	4 th sem A sec
GitHub Repository:	Neha-T		

FORENOON SESSION DETAILS

Image of session

Example: In the circuit shown in figure, a steady state is reached with switch (K) open. At $t = 0$ switch (K) is closed. For the element values given determine the values of $V_a(0^-)$ and $V_a(0^+)$.

For node V_a ,

$$\frac{V_a}{20} + \frac{V_a - V_b}{20} + \frac{V_a - V_c}{20} = 0$$

$$3V_a - V_b - V_c = 0 \dots \dots \dots \text{Eqn.(1)}$$

For node V_b ,

$$\frac{V_b - 100}{20} + \frac{V_b - V_a}{20} + \frac{V_b - V_c}{20} = 0$$

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Transient Analysis: Behaviour of Basic Passive Elements

Two Port Network

Input Port Port 1 Two Port Network Output Port Port 2

So, this two-port network model is used in mathematical circuit analysis techniques for **ELECTRONICS**

#TwoPortNetwork #TwoPortParameters
 Introduction to Two-Port Networks
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Example 2

$$V_1 = Z_{11} I_1 + Z_{12} I_2$$

$$V_2 = Z_{21} I_1 + Z_{22} I_2$$

$$Z_{11} = \frac{2a+2b}{2} = \frac{4+2}{2} = 3\Omega$$

$$Z_{21} = \frac{2a-2b}{2} = \frac{4-2}{2} = 1\Omega$$

Two-Port Network

ALL ABOUT ELECTRONICS - 3 / 12

1. Introduction to Two-Port Networks
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5:42
2. Z Parameters Explained | Condition for Reciprocity and Symmetry for Z-...
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15:38
3. Solved Problems on Z - Parameters
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19:27
4. Y- Parameters Explained | Condition of Reciprocity and Symmetry for Y-...
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5. h- parameters (Hybrid Parameters) Explained | Condition for Reciprocity...
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6. ABCD Parameters (Transmission Parameters) Explained
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#TwoPortNetwork #ZParameters

Solved Problems on Z - Parameters

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➤ **Evaluation of initial and final condition in RL, RC and RLC circuits**

- Initial conditions describe the energy stored in every capacitor and every inductor
- Initial conditions are completely specified only when both voltage and current for all capacitors and all inductors is known
- The final condition (steady state condition) equivalent circuit of an inductor is derived from the basic relationship $v = L \frac{di}{dt}$
- Under steady state condition $\frac{di}{dt} = 0$
- This means $v = 0$ and hence L acts as a short circuit at $t = \infty$ (final or steady state)
- Procedures for evaluating initial and final conditions
- Explained with some Numerical

➤ **2 port networks**

- Port – is a pair of terminals which connects the electrical circuit or network to the external circuit
- Types
 - ❖ Multi-Port Network
 - ❖ Two Port Network
- Any linear circuit with two pair of terminals can be regraded as two port networks, if it does not contain independent source and satisfies the port condition
- Six different parameters can be defined for the two-port network

- ❖ Z-Parameters
- ❖ Y-Parameters
- ❖ h-Parameters
- ❖ ABCD or Transmission-Parameters
- ❖ Inverse Hybrid-Parameters
- ❖ Inverse Transmission-Parameters

All these parameters were explained with suitable numerical

Date: 03-06-2020

Course: Python

Topic: Build a Web-Based Financial Graph

Name: Neha T

USN: 4AL18EC035

Semester 4th sem A sec
& Section:

AFTERNOON SESSION DETAILS

Image of session

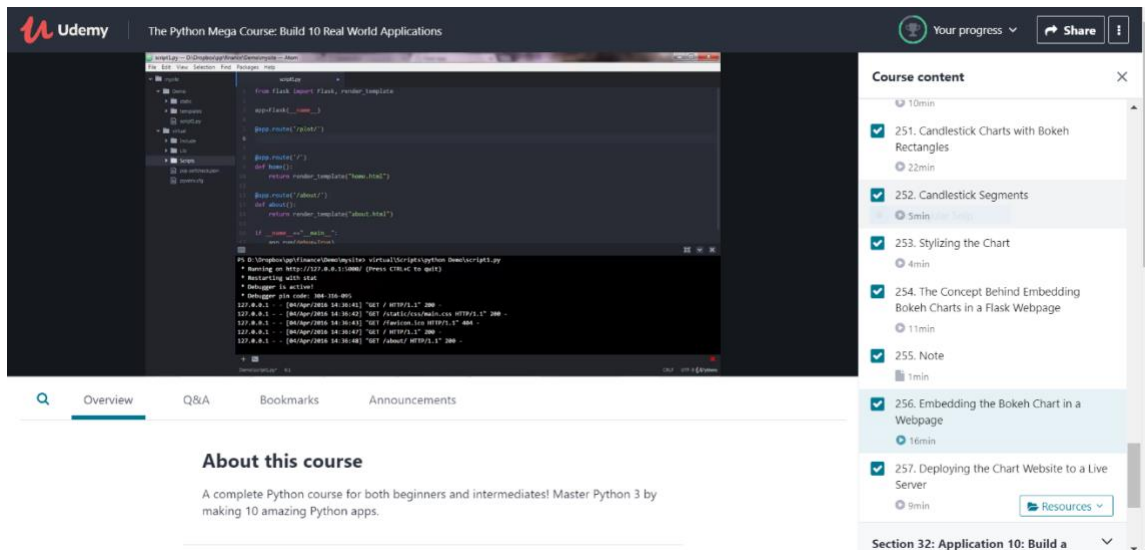
The top screenshot shows a web browser displaying 'My about page' with a 'Candlestick Chart' of stock data. The bottom screenshot shows a Jupyter Notebook with Python code for data analysis and chart creation. Both screenshots include a 'Course content' sidebar on the right.

Course content (Top Screenshot):

- 246. Web-based Financial Graph - How The Output Will Look Like (2min)
- 247. Downloading Datasets with Python (12min)
- 248. Stock Market Data (3min)
- 249. Stock Market Data Candlestick Charts (6min)
- 250. Candlestick Charts with Bokeh Quadrants (10min)
- 251. Candlestick Charts with Bokeh Rectangles (22min)
- 252. Candlestick Segments (5min)
- 253. Stylizing the Chart (4min)
- 254. The Concept Behind Embedding

Course content (Bottom Screenshot):

- 250. Candlestick Charts with Bokeh Quadrants (10min)
- 251. Candlestick Charts with Bokeh Rectangles (22min)
- 252. Candlestick Segments (5min)
- 253. Stylizing the Chart (4min)
- 254. The Concept Behind Embedding Bokeh Charts in a Flask Webpage (11min)
- 255. Note (1min)
- 256. Embedding the Bokeh Chart in a Webpage (16min)
- 257. Deploying the Chart Website to a Live Server



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➤ **Build a Web-Based Financial Graph**

- **Under this session**
 - ❖ **Overview of the output**
 - ❖ **Downloading Datasets with python**
 - ❖ **Stock Market Data**
 - ❖ **Stock Market Data Candlestick Charts**
 - ❖ **Candlestick charts with Bokeh Quadrants and Bokeh Rectangles**
 - ❖ **Candlestick Segments**
 - ❖ **Styling the Chart**
 - ❖ **The Concept Behind Embedding Bokeh Charts in a Flask Webpage**
 - ❖ **Embedding the Bokeh Chart in a Webpage**
 - ❖ **Deploying the Chart Website to a Live Server**

Were discussed