9/22/21, 12:09 PM PSA_Test1

PSA_lest1

Total points 0/0



The respondent's email (u19ee015@eed.svnit.ac.in) was recorded on submission of this form.

Name * Avni Agrawal
Roll No * <u>U19EE015</u>
Ybus is always invertible. State whether this statement is true or false with justification.
Ybus is always symmetric. State whether this statement is true or false with justification. False. Ybus will not always be symmetrical. It will be unsymmetrical when there is use of phase shifting transformer
If we include transformer in any line of the given network then the size of original Ybus will not change. State whether this statement is true or false with justification.

13 1603 101 6	that network is
N*N-(N-2	*L)
•	e of diagonal elements of Ybus is good for the network. State s statement is true or false with justification.
justification	s not a sparse matrix because number of zero elements are less than non zero
	t pus matrix
How we car	n modify given Zbus for tripping of a line in existing network. You answer as forming Zbus again from beginning for modified network

9/22/21, 12:09 PM PSA_Test1

In short circuit analysis, why loads are neglected?

In short circuit analysis loads are neglected because magnitude of short circuit current which flows from conventional rotating machines is greater than the short circuit current magnitude which is being changed by the loads. Also short-circuit currents are greatly out of phase with load currents.

What are the objectives of short circuit analysis.

Objetive of short circuit analysis is to provide current protection devices that prevents injury which also minimize damage to system components, and limit the extent and duration of service interruption during equipment failures. It is used for determinning the steady state solution of a linear network that is balanced with three phase excitation. Such an analysis provides currents and voltage in a power system during the faulted condition.

This form was created inside of Sardar Vallabhbhai National Institute of Technology, Surat.

Google Forms