

Review of: "Mathematical Assessment of the Reliability in a Complex Deregulated Power System"

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Potential competing interests: No potential competing interests to declare.

- 1. State space diagram is missing.
- 2. lambda-1 & lambda-2 are undefined. Likewise, many unknown symbols used in the matrix formulation., without any clarity.
- 3. The assumption of summation of all the probabilities and equating to unity, would be invalid, as the same deals with both failure transition intensities and repair transition intensities.
- 4. It is an invalid statement that, the events are independent.
- 5. Assuming that the methodology is intact, there is no numerical evidence provided to substantiate the formulation.
- 6. There are various variables used in the formulation. It is not shown, how these values are obtained.
- 7. The title is about 'assessment'. In RAMS domain, assessment is to be carried out with actual data obtained from field.

 This aspect is not detailed.
- 8. Matrix D cannot be solved without numerical data. Source and method for obtaining those data are not shown.
- 9. Solving for all the variables required 'n' number of simultaneous equations. This has to be addressed.
- 10. In summary, lot many works are to be carried out so as to ensure that the article brings out some justifiable outcome.

Qeios ID: D0MCJJ · https://doi.org/10.32388/D0MCJJ