

Reliability Assessment of Redundant Electrical Power Supply Systems using Fault Tree Analysis, Reliability Block Diagram, and Monte Carlo Simulation Methods

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Abstract—This paper deals with the reliability assessment of electrical power supply systems under redundancy. For doing so, three probabilistic safety analysis (PSA) methods are proposed and developed namely fault tree analysis (FTA), reliability block diagram (RBD), and Monte Carlo Simulation (MC) method. The FTA method is performed using RiskSpectrumPSA® software and the RBD and MC methods are coded using Matlab software. The electrical power supply system reliability is analyzed and enhanced considering various cases of redundancy. The FTA method is based on qualitative and quantitative reliability assessment. The quantitative assessment calculates the failure probability of the top event, and the qualitative approach determines the minimal cut sets (MCS). However, the RBD and MC methods are proposed to compute the system failure probability. The considered methods are applied on three case studies and the obtained results are compared to each other. The obtained results show that the three methods provide almost the same results. Furthermore, the reliability of the electrical power supply is clearly enhanced with the number of redundant components.

Keywords—electrical power system reliability; probabilistic safety assessment; fault tree analysis; reliability block diagram; Monte Carlo simulation; Redundancy; RiskSpectrumPSA software; minimal cut sets; qualitative and quantitative safety assessment.

I. INTRODUCTION

The electric energy is considered as the heart of the industry development, the human's life comfort and the operation safety of industrial installations. This electric energy must be reliable and must have the best quality in order to fulfill the predefined industrial installations requirements. Generally, the reliability of a system is defined as the probability that this system can perform its intended function for a specified interval under stated conditions. Therefore, the electrical power supply system of an industrial installation must be designed in a manner that provides a best quality and reliability of electrical power. For this, some critical industries need a high level of electrical power supply reliability and don't allow its loss. However, an unreliable electrical power

supply system can cause severe accidents [1]. Therefore, the electric power supply reliability must be continuously evaluated and assessed. This evaluation can be performed during different lifetime stages of the installation (e.g. design, construction, operation, aging, and/or decommissioning).

Various approaches for systems reliability assessment have been proposed in the literature [2], where, the electrical power supply reliability is usually performed using either the deterministic or the probabilistic methods. The deterministic assessment of electric power reliability is generally based on N-1 and N-2 methods. The N-1 method considers the outage of one electric component (e.g. transmission line, generator, or transformer) and check if the electric parameters of power system remain in the nominal interval of variation. The N-2 method considers the failure of an electric component and the maintenance of another one.

The probabilistic assessment of power system is based on the analysis of all possible events that may occur according to their probabilities in order to compute the failure probability of the overall system. The most popular methods used for power system reliability assessment are: Fault Tree Analysis (FTA), Reliability Block Diagram (RBD), Markov chain, and Monte Carlo Simulation (MC).

The reliability evaluation of electrical systems using FTA has been widely proposed [3-9]. In [6], the qualitative and quantitative reliability assessment of an electrical power supply system is presented using FTA and Minimal Cut Sets (MCS). In [7, 8], the FTA is used to evaluate the power system reliability at the load points. The quantitative and qualitative FTA assessments were used to identify the most important elements in the power system. In [9], the FTA method is applied for customer reliability assessment of a distribution power system.

Many practical uses can be highlighted for utilization of RBD in reliability assessment. In [10], RBD and FTA methods are developed for reliability analysis of a fire pump. Likewise,

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Table of Contents Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods

1. Understanding the eBook Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - The Rise of Digital Reading Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Advantages of eBooks Over Traditional Books
2. Identifying Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Personalized Recommendations
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods User Reviews and Ratings
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods and Bestseller Lists
5. Accessing Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods Free and Paid eBooks
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods Public Domain eBooks
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods eBook Subscription Services

- Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods Budget-Friendly Options
- 6. Navigating Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods eBook Formats
 - ePub, PDF, MOBI, and More
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods Compatibility with Devices
 - Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Highlighting and Note-Taking Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Interactive Elements Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
- 8. Staying Engaged with Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
- 9. Balancing eBooks and Physical Books Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Setting Reading Goals Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Fact-Checking eBook Content of Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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