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Reliability Analysis of Phased Mission System with Non-exponential and Partially Repairable Components

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Highlight

- Apply the Semi-Markov Process in the Complex cold standby and partially repairable PMS consisting of non-exponential components.
- An approximation solution is proposed to solve the difficult integrals in Semi-Markov Process.
- The accuracy and calculation efficiency of the approximation method is studied.
- The SMP and approximation method, as well as the modularization method and PMS-BDD method are applied to assess the reliability of a practical multi-phased AOCS of the man-made satellite.

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