特高压直流输电可靠性指标研究

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摘要：根据目前国内外500 kV直流系统有关元件、子系统的可靠性参数，通过建立特高压直流系统的等效模型，依据马尔可夫过程原理，采用频率和持续时间法（FD法），计算和分析超高压直流系统的可靠性指标。然后，依照特高压直流系统的设计特点及直流技术的发展趋势，建议了特高压直流输电系统的可靠性指标。

关键词：特高压直流输电系统；双12脉接线；可靠性；指标

Study on the Reliability Index of UHVDC Power Transmission

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Abstract: Based on the reliability parameters of the elements and subsystems of the 500 kV EHVDC system, the calculation and analysis of reliability indices for the system are addressed with an equivalent model of the system and by using the theory of Markov process and FD method. Furthermore, according to the design characteristics of UHVDC and the trend of developing HVDC technology, this paper makes suggestions to the reliability indices for the UHVDC system.

Key words: UHVDC; 2×12-pulse valve groups; reliability; index

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