

荷兰PBQ蓄电池PBQL100-12机房直流屏通信消防设备12v100ah

产品名称	荷兰PBQ蓄电池PBQL100-12机房直流屏通信消防设备12v100ah
公司名称	普达特电源有限公司
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产品详情

静态电压稳定临界点能够为电压稳定评估和控制措施提供重要信息,为此,提出了一种快速计算静态电压临界点的方法,包括鞍结型分岔点和极限诱导分岔点。首先提出了一种线性特性较好的鞍结型分岔点逼近指标,然后利用大步长的连续潮流方法逼近临界点,检测极限诱导分岔,同时通过鞍结型分岔点逼近指标判断潮流解逼近鞍结型分岔点的程度。当满足切换条件时,从连续潮流法切换为直接法,为直接法提供了较好的计算初值,能够快速准确地计算分岔点。算例结果表明,较之连续潮流法,所提方法具有更高的计算效率。此方法避免了连续潮流法在鞍结型分岔点附近校正环节计算量较大的问题,同时也解决了分岔点直接计算方法在离鞍结型分岔点较远时的收敛问题,兼顾了连续潮流法和分岔点直接法两者的优点,具有精度和速度的双重优势,具有在线应用的潜力。The critical point of static voltage stability can provide important information for voltage stability evaluation and control measures. Therefore, we propose a method which includes saddle-node bifurcation point and limit-induced bifurcation point to quickly calculate the static voltage critical point. Firstly, a saddle-node bifurcation point approximation index with good linear characteristics was proposed, and then the large-step CPF (Continuation Power Flow) method was used to approach the critical point to detect the limit-induced bifurcation. At the same time, the saddle-node bifurcation point approximation index was used to judge the degree of power flow solution approaching the saddle-node bifurcation point. When the switching conditions were met, the CPF method was switched to the PoC (Point of Collapse) method, which provides a good initial value for the PoC method to calculate the bifurcation point quickly and accurately. The results show that the proposed method has higher computational efficiency than the CPF. This method avoids a large amount of calculation of the correction in the CPF method near the saddle-node bifurcation point, and also solves the convergence problem of the PoC method when it is far from the saddle-node bifurcation point. Taking into account the advantages of the CPF method and the PoC method, this method has the dual advantages of accuracy and speed, and the potential of online application