



同塔同窗同相序紧凑型输电线路潜供电流与恢复电压研究

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摘要：从同塔同窗同相序紧凑型输电线路的潜供电流和恢复电压的产生机理出发，对该输电方式的潜供电流和恢复电压特性进行了理论分析与仿真计算。结果表明，采用同塔同窗同相序排列有利于降低线路的潜供电流与恢复电压；在合适的高抗及中性点小电抗配置下，该输电方式的潜供电流及恢复电压可被抑制在较小的数值范围之内。

关键词：同塔同窗同相序紧凑型；潜供电流；恢复电压

Research on the Secondary Arc Current and Recovery Voltage of Two Compact Circuits with the Same Array of Phase in One Pylon Window

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Abstract: The mechanism causing secondary arc current and recovery voltage of two compact circuits with the same array of phase in one pylon window is introduced. The characteristics of secondary arc current and recovery voltage in such transmission are analyzed, concerning both theoretical aspects and simulation calculation. The results showed that, the transmission of two compact circuits with the same array of phase in one pylon window is beneficial to the suppression of the secondary arc current and the recovery voltage; the secondary arc current and the recovery voltage of the lines could be reduced to acceptable value if proper high-voltage shunt reactors and netual reactors are applied.

Key words: two compact circuits with the same array of phase in one pylon window; secondary arc current; recovery voltage

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