

中国电机工程学会电磁干扰(EMI)专委会年会优秀论文

采用激发函数法计算分析不同相序排列下双回交流高压输电线路的无线电干扰

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摘要:

高压交流输电线路无线电干扰水平是线路电磁环境的指标之一。采用激发函数法计算了双回交流线路不同相序、不同线路间距等情况下无线电的干扰水平。计算结果表明:对于垂直排列的双回交流线路,同相序排列对应的无线电干扰水平最低;不同相序排列无线电干扰水平相差不大;对于任意多回路,无线电干扰水平的计算必须借助合适的软件。

关键词: 激发函数 无线电干扰 多回交流输电线路 相序排序

Analysis on Radio Interference From Double-Circuit of High Voltage AC Power Transmission Line Under Different Arrangement of Phase Sequence by Excitation Function Method

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Abstract:

The radio interference level from high-voltage power transmission line is one of the indices to evaluate electromagnetic environment of transmission line. By use of excitation function the radio interference levels from double-circuit transmission line under different phase sequences and different spacing between transmission lines are calculated. Calculation results show that for vertically arranged double-circuit transmission line, the radio interference level under the same phase sequence arrangement is the lowest; there is no evident difference among the radio interference levels corresponding to double-circuit transmission line with different phase sequence arrangement; for arbitrary number-circuit transmission line, it is necessary to calculate radio interference level by appropriate software.

Keywords: excitation function radio interference multi-circuit AC transmission line phase sequence arrangement

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