

220kV 变电站电气部分设计

中文摘要

本设计为 220kV 降压变电站，在设计中，分别对变电站的意义和原始资料进行简略的介绍。在电气主接线设计中，首先对设计原则进行介绍，然后对不同接线形式进行了详细的对比，确定了主接线的形式。设计中，变压器的形式、台数还有容量都进行选择计算。变压器的保护整定计算中，防雷计算中，对避雷针的根数以及排列方式进行选择和计算，实现对变电所的全面保护。最后，对经济性与环保分析进行了分析。

关键词：变电站；变压器；防雷

Abstract

This design is 220kV buck substation, in the design, the significance of the substation and the original data are briefly introduced. In the design of electrical main wiring, the design principle is introduced first, and then the different types of wiring are compared in detail to determine the main wiring form. In the design, the form of transformer, the number of sets and the capacity are selected and calculated. In the calculation of transformer protection setting and lightning protection, the number and arrangement of lightning rods are selected and calculated to realize the overall protection of substation. Finally, the economic and environmental analysis is analyzed.

Key words: Substation; Transformer; Lightning protection

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