Mechanical Design Of Overhead Electrical Transmission Lines

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Conductor materials of Overhead Distribution Lines. The conductor material which used for transmission and distribution of electric power system should have the following properties; High electrical conductivity. High tensile strength in order to hold the mechanical stress. Low cost so that it can be used for long distances for cheap price.

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When designing an overhead transmission line, we should pay attention to ensure that the tension force does not exceed, in any case, the limit of the mechanical strength of the conductor. The maximum stress occurs at the lower temperature,when the line is subjected to contraction, and a possible ice coating.

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Introduction: Electric power is transmitted or distributed either by suggests that of underground cables or by overhead lines. The underground cables square measure seldom used for power transmission because of 2 main reasons. Firstly, power is usually transmitted over long distances to load centers. Obviously, the installation prices for

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