



Mechanical Stresses in Transmission Lines (Classic Reprint) (Paperback)

By Antonio Guell

Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Mechanical Stresses in Transmission Lines 1. Preliminary. - Owing to the fact that the mechanical stresses in transmission lines vary within unusually wide limits, many electrical engineers have overlooked the fact that otherwise well-designed and expensive electric power stations have been seriously crippled because the transmission line, though electrically strong, was mechanically weak. There are instances where it would be a commercial impossibility to design a transmission line that would withstand the local combined maximum wind pressure, ice load, and temperature range. If a telegraph or telephone line should be overturned by an exceptionally severe storm, accompanied by sleet on the wires, comparatively little inconvenience would result, owing to the fact that these small wires, though frequently numerous, carry harmless currents. The percentage of modern telegraph and telephone lines yearly destroyed is fairly small; and, for this reason, to build all the lines strong enough to resist the most exceptional wind pressure would be more expensive than to replace the few lines destroyed. Let a high-tension transmission line be overturned, however, and more serious results will follow. The transmission...



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