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an example of a three phase power distribution network is illustrated in figure 1 below 3 phase power distribution network distribution voltages in continental europe are typically 110 kv 69 kv and 20 kv but practice varies from country to country in the usa voltages of 138 kv 115 kv 69 kv 34 5 kv 13 2 kv and 4 16 kv are employed routers or multilayer switches that combine routing and switching in the same device redundancy and load balancing high speed and aggregate links routing protocols that scale well and converge quickly such as enhanced interior gateway routing protocol eigrp and open shortest path first ospf protocol part 1 covers the general principles of network design and planning security of supply network design basics voltage management load forecasting electrical losses and analysis and modelling it includes a useful 21 point check list which planning engineers may find useful when preparing proposals for network investment the main components of an electric power system include generation transmission and distribution networks distribution networks and power generation stations are connected via transmission lines usually transmission lines transmit a high amount of power through high voltage links between main load centers in electrical engineering and electronics a network is a collection of interconnected components network analysis is the process of finding the voltages across and the currents through all network components basic network design principles for electrical engineers pacbasics substation automation table of contents hide data networks classification by spatial scope protocol layering osi and tcp ip data link layer the ethernet source address destination address managing network traffic redundancy in switched networks an electrical network is an interconnection of electrical components e g batteries resistors inductors capacitors switches transistors or a model of such an interconnection consisting of electrical elements e g voltage 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