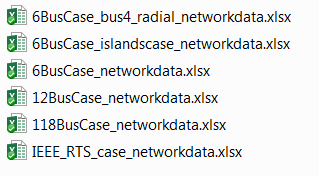
**Power Flow data Case descriptions**

The following Excel Spreadsheet data files come with the factors calculator:

NOTE: If you create any new data files for testing, the last 11 characters of the file name must be “networkdata” (without the quote marks) in order for the program that reads the files to pick out the correct files.

Each of these test cases has a diagram included in a PDF file.



The 6BusCase files are from the textbook Power Generation Operation and Control by Wood Wollenberg and Sheble’:

6BusCase\_networkdata.xlsx has all line in

6BusCase\_bus4\_redial\_networkdata.xlsx has lines 1-4 and 4-5 opened at the start by setting the “status” field equal to zero. This leaves bus 4 as a radial bus.

6BusCase\_islandcase\_networkdata.xlsx lines 2-4, 2-5, and 3-5 out so that line 1-4 connects two islands if removed.

12BusCase\_networkdata.xlsx is made up of two identical sets of buses and lline from the 6BusCase. One set is buses 1 to 6 and the other is set 7 to 12. There are three tie lines connecting these islands, they are lines 3-9, 5-8 and 4-10. If two of these three tie line are opened you also have another island case.

118BusCase\_networkdata.xlsx is the IEEE 118 bus test case

IEEE\_RTS\_case\_networkdata.xlsx is the IEEE “Reliability Test Case” (i.e. RTS) system.