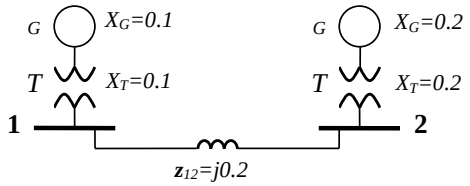
1. The system shown in the figure is running at no-load before a 3-phase fault occurs. All values are given in p.u. If a fault with fault impedance $j0.8$ p.u. occurs at bus 2, then, the fault current at bus 2, in p.u., is:



A. -j1.25 p.u.
B. -j2.50 p.u.
C. j1.00 p.u.
D. -j1.00 p.u.

2. The resistance of an electric arc can be increased by

A. Increasing the concentration of ionised particles.
B. Reducing the arc length.
C. Splitting the arc.
D. Increasing the arc cross section.

3. **The value of Solar Constant is**

A. 1347 W/m^2
B. 1357 W/m^2
C. 1367 W/m^2
D. 1377 W/m^2