

Impedance and admittance of interconnected elements

Series connections

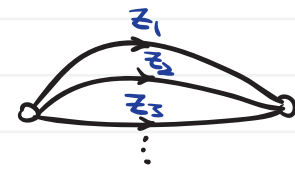
Elements sharing the same through-variable are said to be in **series** connection.

N impedances connected in series  have the equivalent impedance

and admittance

Parallel connections

Elements sharing the same across-variable are said to be in **parallel** connection.

N impedances connected in parallel  have the equivalent impedance

and admittance

Example For the circuit shown, what is the equivalent impedance?

