

Answer on Question #58081-Engineering-Electrical Engineering

How do you work out total capacitance?

Answer

You can reduce capacitors connected in parallel or connected in series to one single capacitor.

For parallel capacitors, the equivalent capacitance is

$$C_{EQ} = C_1 + C_2 + C_3.$$

The preceding equation shows how you can reduce the series capacitance to one single capacitance:

$$\frac{1}{C_{EQ}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$