

Exercise 5

1. VISA is a common interface for instruments. Investigate using web resources the different stages in setting up a VISA serial interface as a prerequisite to designing a VI for data collection. The data should be saved to a string. The interface should write a string of text of maximum length 256 bytes and then read a string of max 16000 bytes.
2. How terminals are needed to parametrically analyse i) a capacitor, ii) a zener diode, iii) a bipolar transistor, iv) a thyristor, v) a white-light LED, vi) a MOSFET?
3. What is meant by large signal parameters and what type of circuit are they important for?
4. What is meant by small signal parameters and what type of circuit are they important for?
5. Why are large and small signal parameters different?