

Classical Sets

Consider a classical set where X denotes universal sets. The elements in the universe X will be denoted as x . Examples of elements of various universes might be as follows.

- The clock speeds of computers CPUs.
- The operating temperature of an air conditioner.
- The operating currents of an electronic motor or a generator set.
- The integers 1–100.

2.2.1 Operations on Classical Sets

Union $A \cup B = \{x/x \in A \text{ or } x \in B\}.$

Intersection $A \cap B = \{x/x \in A \text{ and } x \in B\}.$

Complement $\overline{A} = \{x/x \notin A, x \in X\}.$

Difference $A|B = \{x/x \in A \text{ and } x \notin B\}.$