**Definition 3.42.** [235] Other operators between sets are:

• the difference

$$A \setminus B \stackrel{\text{\tiny def}}{=} \{ x \in A : x \notin B \} ;$$

- if the set A is clearly specified by the context, and if B ⊆ A, it is common to write B<sup>c</sup> <sup>def</sup> = A \ B; B<sup>c</sup> is said to be the complement of B in A;
- the symmetric difference

$$A \varDelta B \stackrel{\text{\tiny def}}{=} (A \cup B) \setminus (A \cap B) = (A \setminus B) \cup (B \setminus A) = \{ x \in A \cup B : x \in A \notin A \in A \}$$

where A, B are sets.