

4. Boolean Models

If a solid object is represented by the Boolean combination of two or more simpler objects, then the representation is a **Boolean model**.

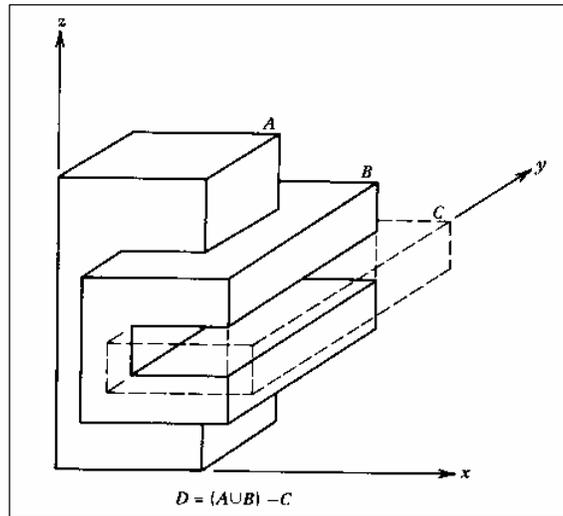


Figure 1. A simple procedural method

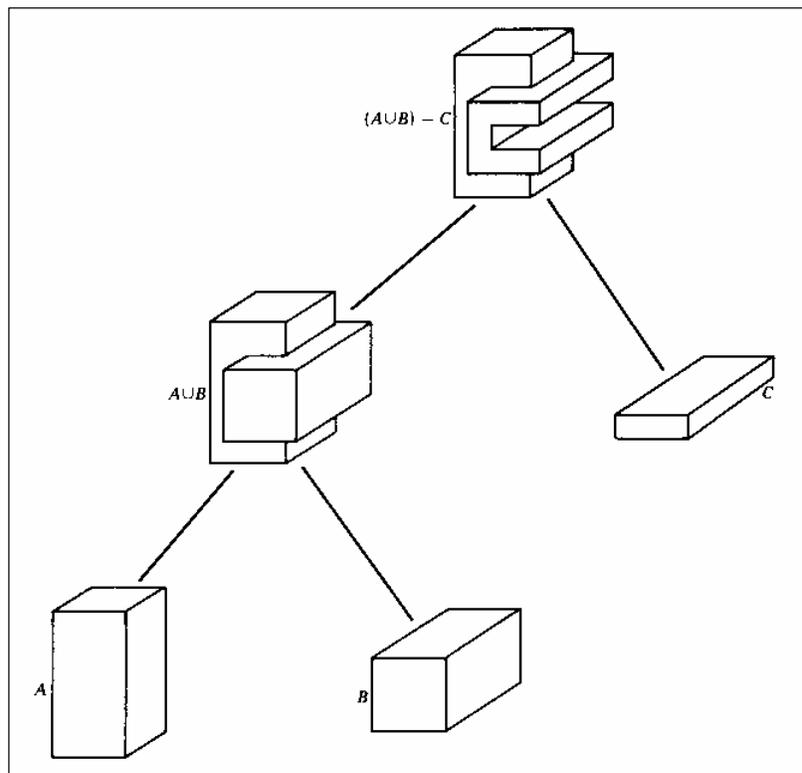


Figure 2. The binary tree for $D = (A \cup B) - C$

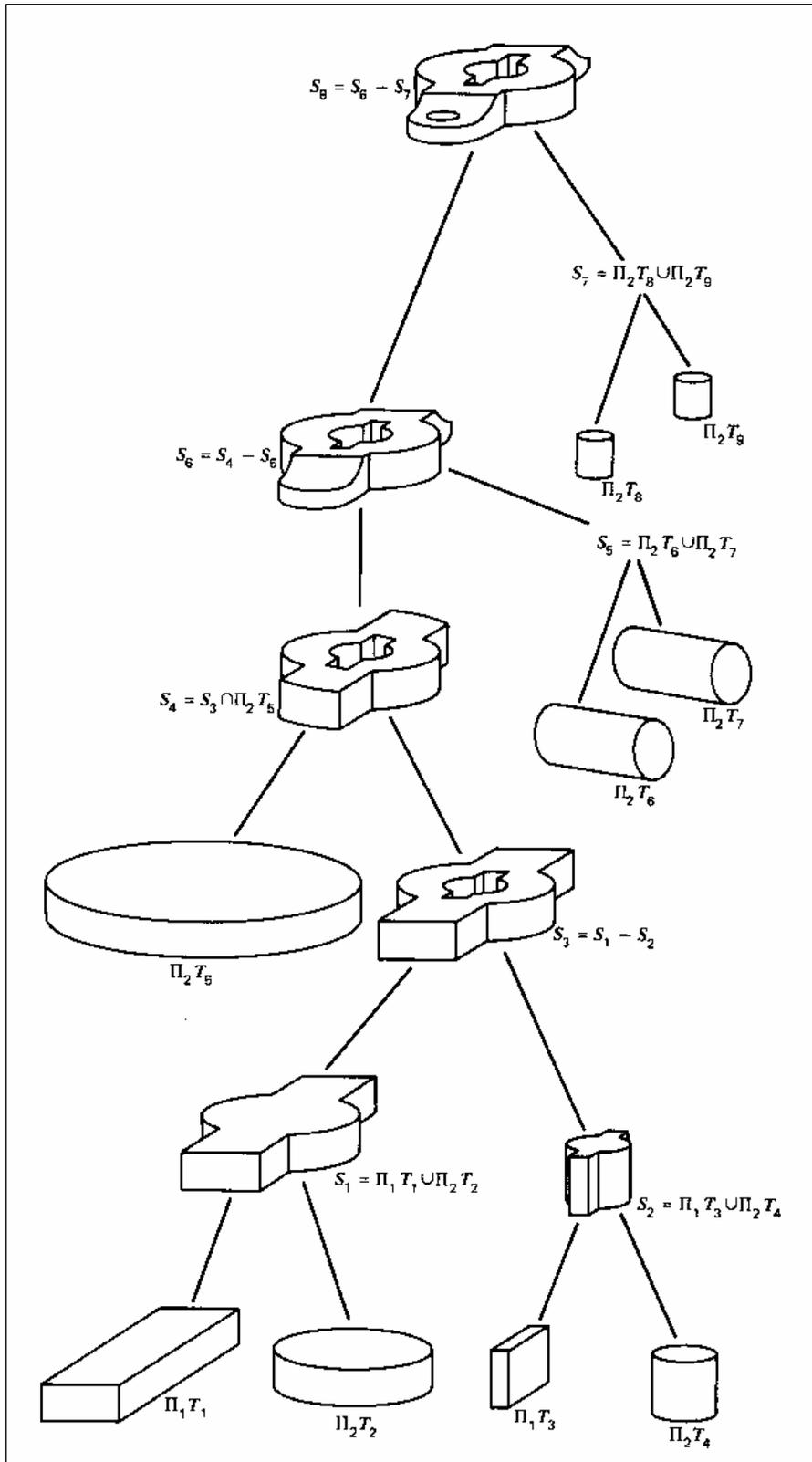


Figure 3. A boolean model of a mechanical part

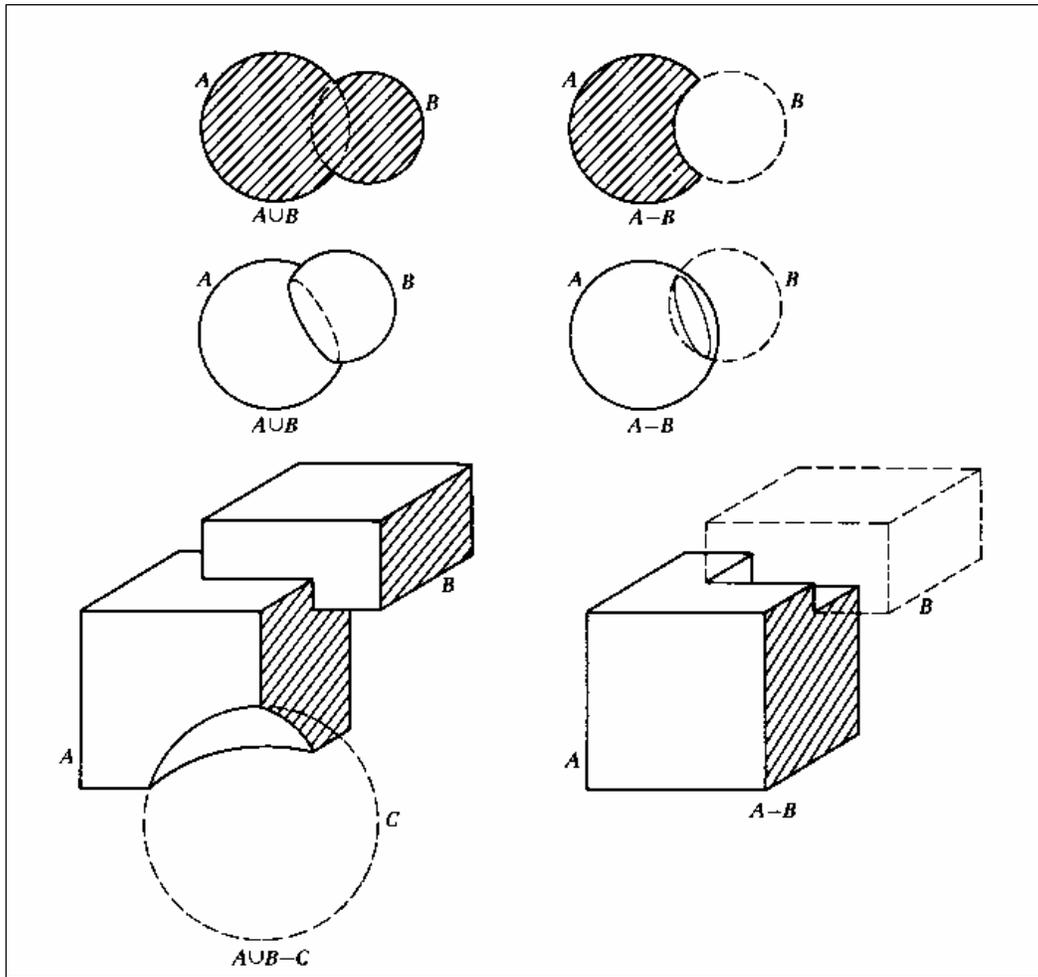


Figure 4. Examples of union and difference

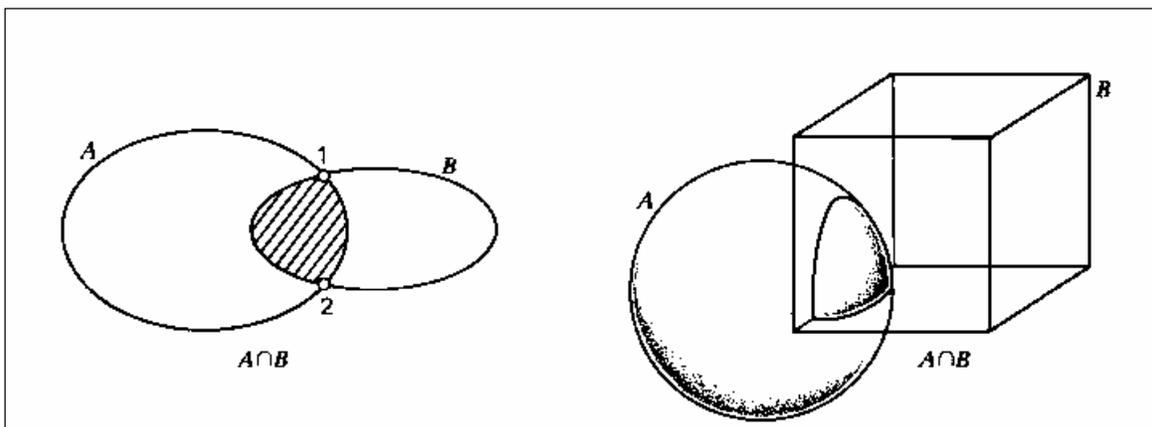


Figure 5. The intersection operation