```
            <swrlx:individualPropertyAtom swrlx:property="childOf">
                  <ruleml:Var>Z</ruleml:Var>
                  <ruleml:Var>Y</ruleml:Var>
            </swrlx:individualPropertyAtom>
      </ruleml:And>
   </ruleml:if>
</ruleml:Implies>
```

5.12   Summary

- Rules on the (semantic) web form a very rich and heterogeneous landscape.

- Horn logic is a subset of predicate logic that allows efficient reasoning. It forms a subset orthogonal to description logics. Horn logic is the basis of monotonic rules.

- RIF is a new standard for rules on the web. Its logical dialect BLD is based on Horn logic.

- OWL2 RL, which is essentially the intersection of description logics and Horn logic, can be embedded in RIF.

- SWRL is a much richer rule language, combining description logic features with restricted types of rules.

- Nonmonotonic rules are useful in situations where the available information is incomplete. They are rules that may be overridden by contrary evidence (other rules).

- Priorities are used to resolve some conflicts between nonmonotonic rules.

- The representation of rules in XML-like languages, such as those provided by RIF and RuleML, is straightforward.