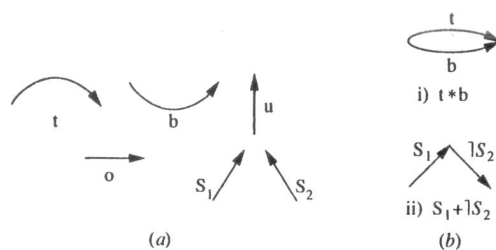


**FIGURE 7.2**

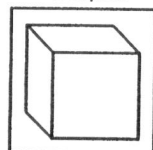
A simple parsing of a fragment of music, showing a hierarchical structure [Roads 1979]. Reprinted by permission.



**FIGURE 7.4**

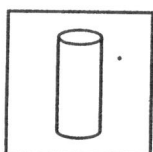
(a) Picture description grammar primitives. (b) Attachment examples.

# Line Drawing Grammar Description



(see problems)

(a) Cube



(b) Cylinder

Cylinder  $\rightarrow$  Top \* Body  
 Top  $\rightarrow$  t \* b  
 Body  $\rightarrow$   $\uparrow$  u + b + u  
 (alt:)  
 Cylinder  $\rightarrow$  t \* b \* ( $\uparrow$  u + b + u)

**FIGURE 7.5**

Sample line drawings for the grammar-based approach  
 (a) cube (b) cylinder.