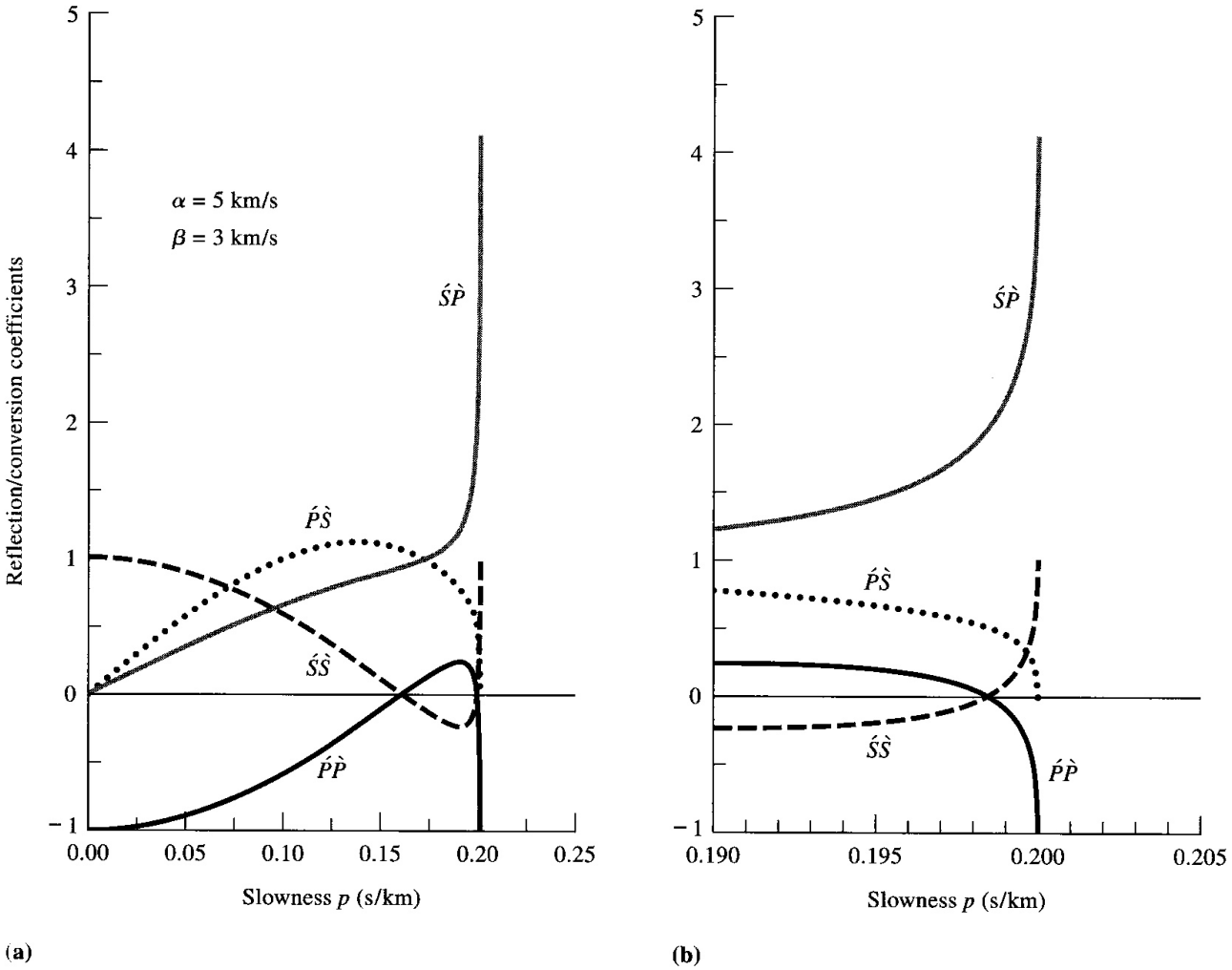

FIGURE **5.6**
The four possible *P–SV* reflection/conversion coefficients (displacement amplitude ratios) for a free surface are shown against horizontal slowness p. See Figure 5.5. In this case, $\alpha = 5$ km/s and $\beta = 3$ km/s, and we restrict p to lie in the range $0 \leq p \leq 1/\alpha$ so that incidence angle i is always real. For $i = 90°$, $\acute{S}\grave{P}$ is quite large (~ 4.1). The left panel shows the whole range of p. The right panel shows an expanded view of the range just less than $p = 1/\alpha$.

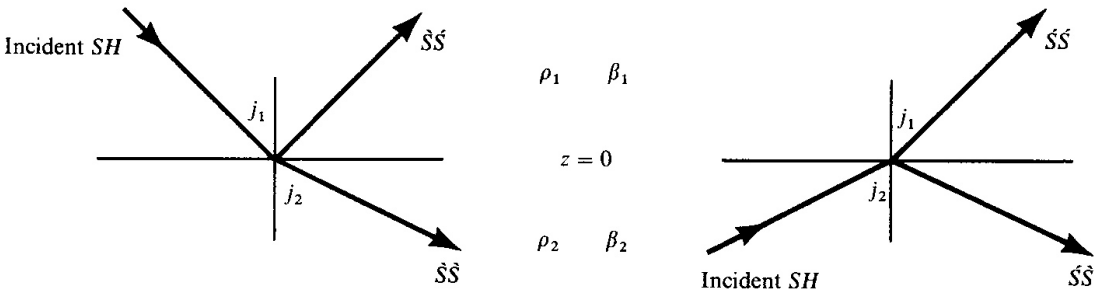

FIGURE **5.7**
Notation for the four possible reflection/transmission coefficients arising for problems of incident SH-waves.