

<u>KEY:</u>	
$W$	Amount of water vapour contained in the air as it moves through the control volume.
$E$	Net evapotranspiration from the underlying land surface.
$P$	Net precipitation onto the land surface.
$P_m$	Precipitation of local (evaporative) origin.
$P_a$	Precipitation of advective origin.
$F^+$	Advective (only) moisture into the control volume.
$F^-$	Advected moisture that remains after $P_a$ is removed plus moisture of local origin.
$R_s^+$	Surface water runoff into the control volume.
$R_s^-$	Surface water runoff remained after $E$ is removed.
$R_d^+$	Deep ground (sub-surface) water runoff into the control volume.
$R_d^-$	Deep ground water runoff that remain after $E$ is removed

**Figure 9.17:** Conceptual model of the atmospheric moisture fluxes over a land region. Modified from Brubaker *et al.* (1993), with  $R_s$  and  $R_d$  are added.