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.

**KEY:**

- **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^-$$P_a$**: 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.