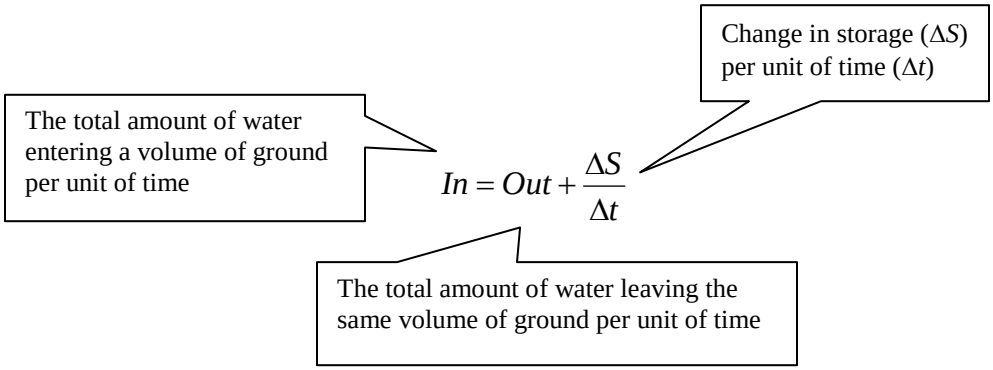
Errata

Page xiii:



Page 8, Figure 1.6 caption :

Figure 1.6. Interception
Interception = gross precipitation − net precipitation
Interception = interception storage change per unit of time + interception evaporation
Net precipitation = stemflow + throughfall

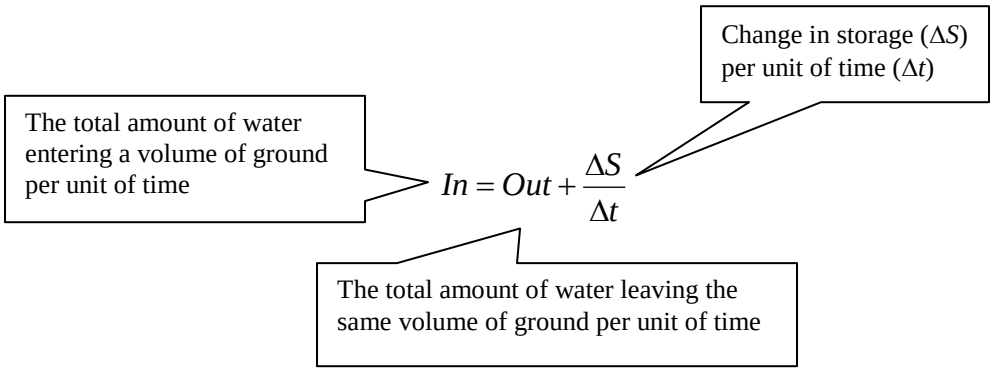
Page 8, 6 lines from bottom of page:

This interception evaporation is often called **interception loss**.

Page 8, add margin text near bottom of page:

The term interception loss is misleading in the sense that there are no losses within the hydrological cycle, as all water is recycled.

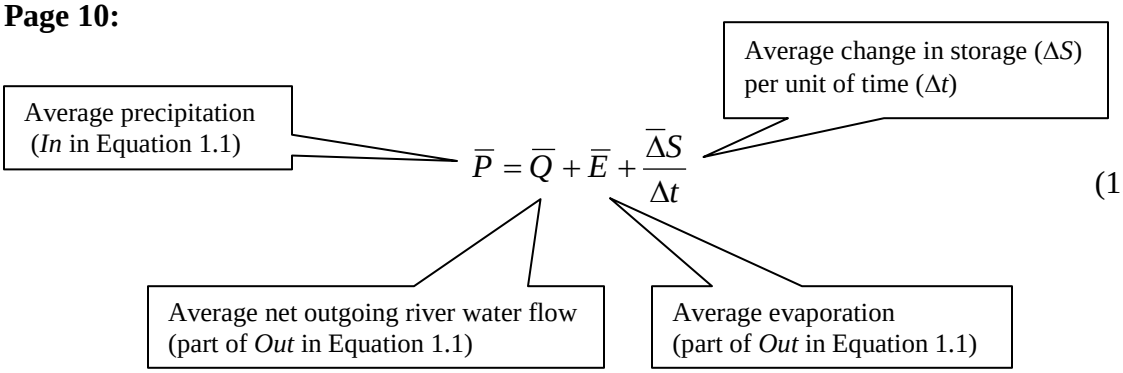
Page 9:



(1.1)

The terms *In* and *Out* in the above equation have absolute values (greater than or equal to zero) irrespective of the direction of the processes involved. ΔS (in $\Delta S/\Delta t$) can have a zero, positive, or negative value as explained below (Δt is positive).

Page 10:



(1.2)

Page 13, left column, line 3:

- Water balance (equation): $In = Out + \Delta S/\Delta t$

Page 13, left column, line 6:

(ΔS can have a zero, positive, or negative value)

Page 35, near bottom of page:

$$R_n = S_n - L_n \qquad \text{(B2.12.1)}$$

Page 38, Table B.2.12.2, near top of table:

Southern latitudes July Aug Sep Oct Nov Dec Jan Feb Mar Apr May June

Page 39, mid page:

$$R_n = G + H + \lambda E_a \qquad \text{(B2.12.7)}$$

Page 308:

1.4.2 $P = Q + \frac{\Delta S}{\Delta t}$; 30 mm hour^{-1} in 40 minutes $= \frac{2}{3}$ hour

$\Rightarrow P = \frac{2}{3} \times 30 = 20$ mm in 40 minutes

$Q = \frac{150 \text{ m}^3}{10^4 \text{ m}^2} = 15 \times 10^{-3} \text{ m} = 15$ mm in 40 minutes

5 mm; $5 \times 10^{-3} \text{ m} \times 10^4 \text{ m}^2 = 50 \text{ m}^3$

Page 308:

3.10.4c the effective velocity increases with a factor of 2; the residence time decreases with a factor of 4

Page 313, right column, line 3:

$$e^{-\alpha \Delta t} = \frac{f_{t+\Delta t} - f_c}{f_t - f_c} = \frac{25 - 5 \text{ mm hour}^{-1}}{45 - 5 \text{ mm hour}^{-1}} = \frac{20}{40} = 0.5$$

Page 313, bottom of right column:

$F(60) = 26 = S\sqrt{60} + 60K =$

$S\sqrt{60} + 60 \times (2 - S) = S\sqrt{60} + 60 \times 2 - 60S$

$\Rightarrow S = \frac{120 - 26}{60 - \sqrt{60}} = 1.8$ mm min$^{-0.5}$

$\Rightarrow K = 2 - 1.8 = 0.2$ mm min^{-1}

Page 315, right column:

5.2.2 18 litre s^{-1}

Page 316, right column, line 7:

$$\frac{dQ}{\alpha} = -Q dt \Rightarrow \frac{1}{Q} dQ = -\alpha\, dt \Rightarrow \int_{Q_0}^{Q_t} \frac{1}{Q} dQ = \int_{0}^{t} -\alpha\, dt$$