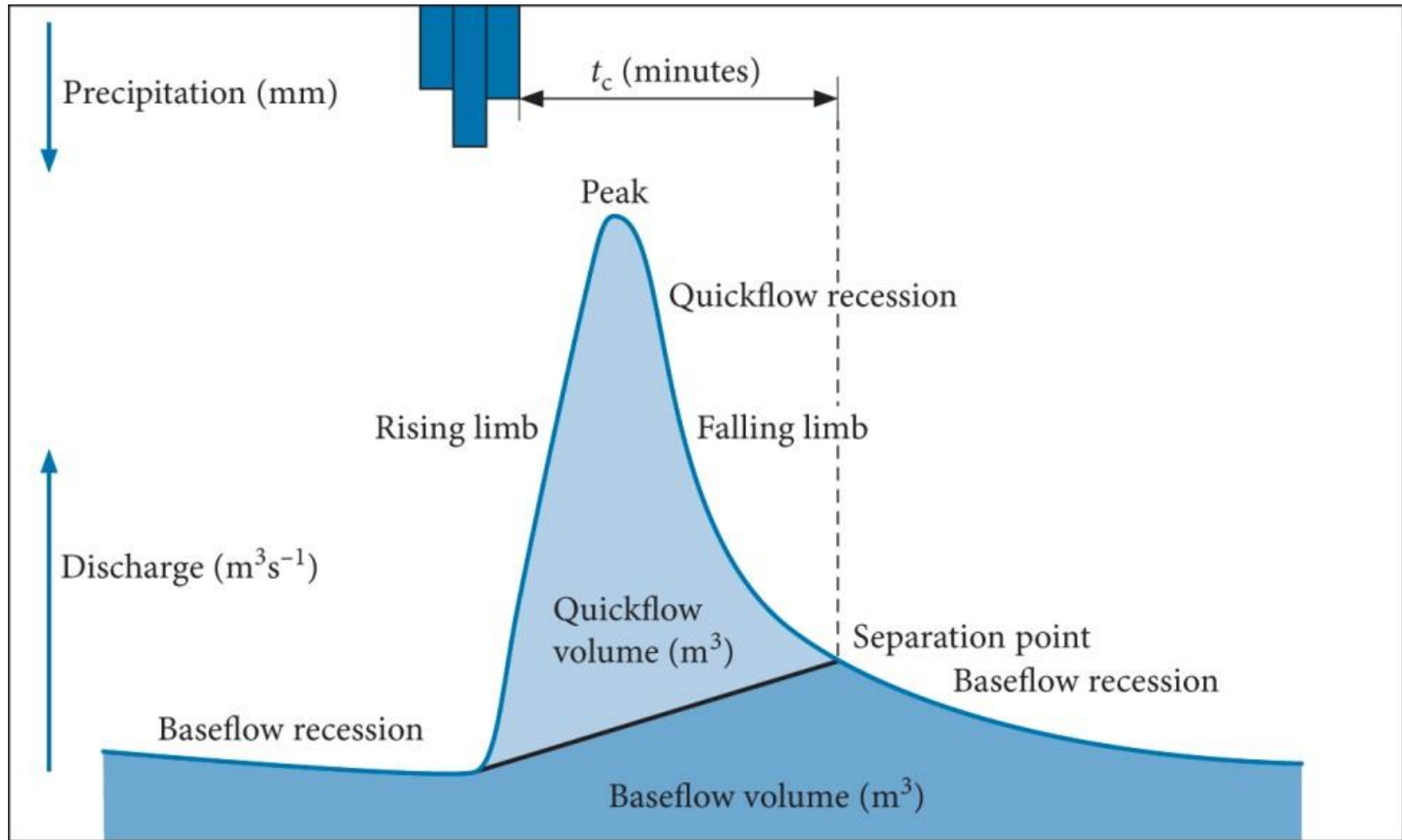


Hydrograph analysis

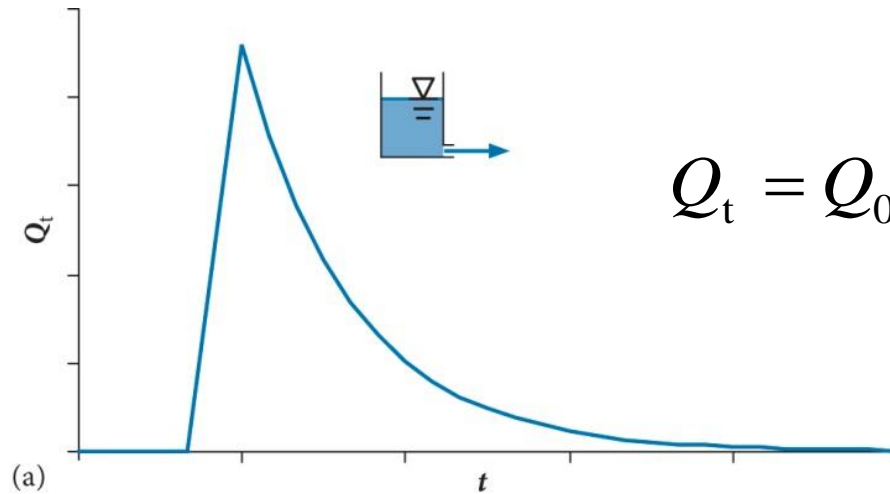
<https://www.youtube.com/user/MartinRHendriks/videos>



Hydrograph recession analysis

<https://www.youtube.com/user/MartinRHendriks/videos>

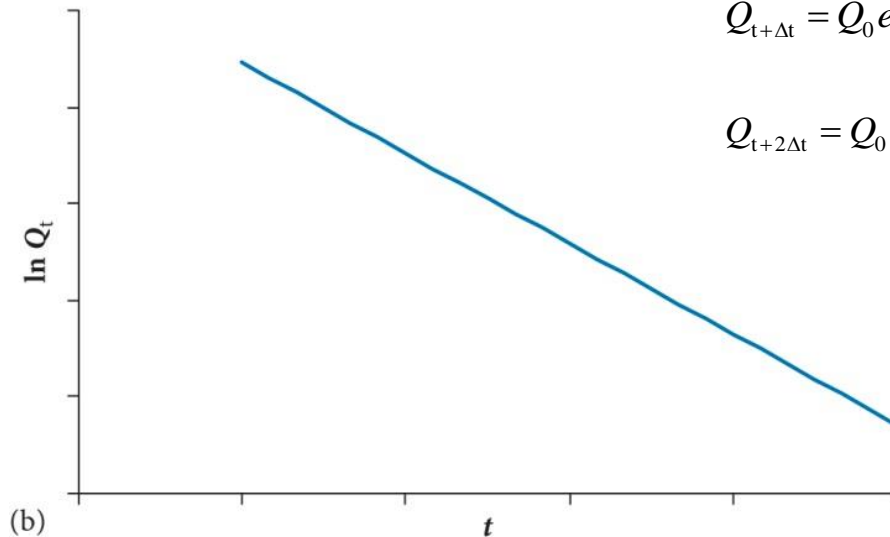
Ephemeral stream
Quickflow reservoir



$$Q_t = Q_0 e^{-\alpha t}$$

$$Q_{t+\Delta t} = Q_0 e^{-\alpha(t+\Delta t)} = Q_0 e^{-\alpha t} e^{-\alpha \Delta t} = Q_t e^{-\alpha \Delta t}$$

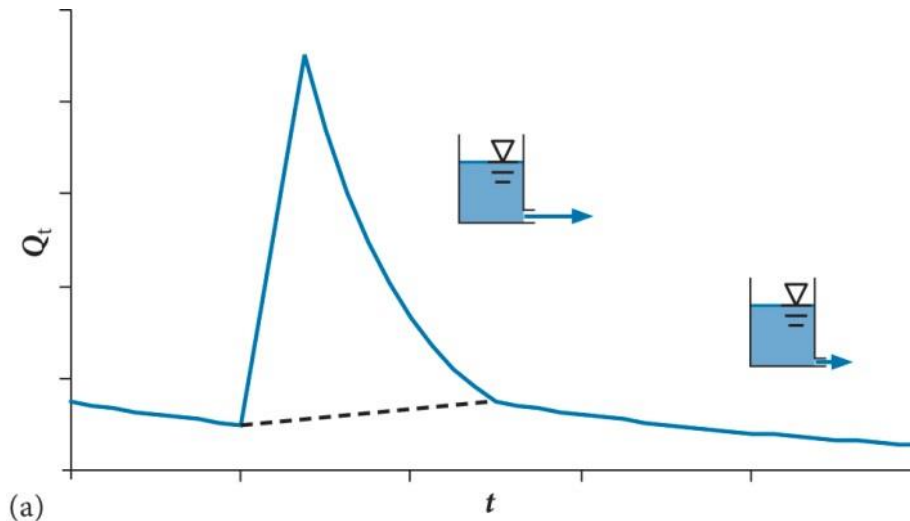
$$Q_{t+2\Delta t} = Q_0 e^{-\alpha(t+2\Delta t)} = Q_0 e^{-\alpha t} e^{-2\alpha \Delta t} = Q_0 e^{-\alpha t} (e^{-\alpha \Delta t})^2 = Q_t (e^{-\alpha \Delta t})^2$$



$$\ln Q_t = -\alpha t + \ln Q_0$$

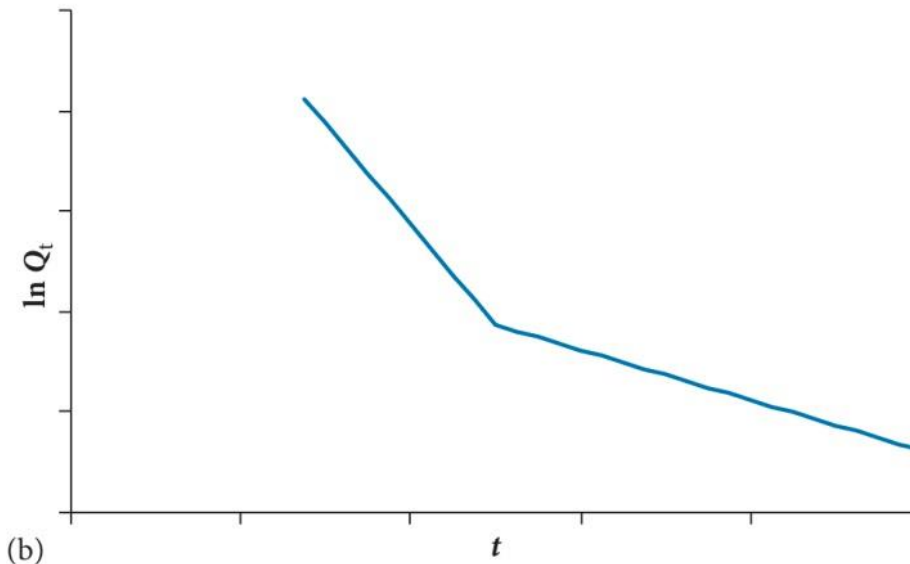
Hydrograph recession analysis

<https://www.youtube.com/user/MartinRHendriks/videos>



Perennial stream
Quickflow reservoir
Baseflow reservoir

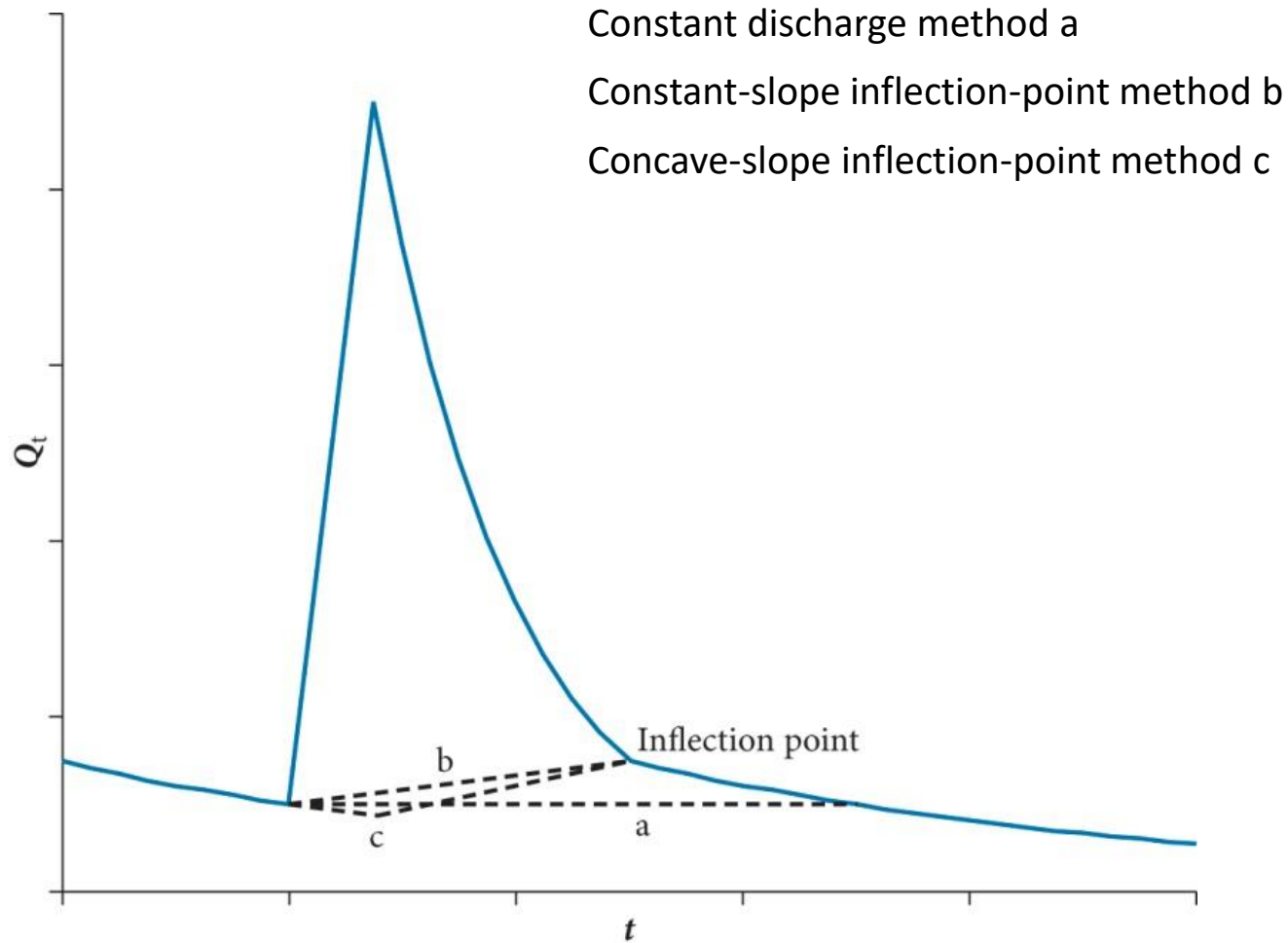
$$Q_t = Q_0 e^{-\alpha t}$$



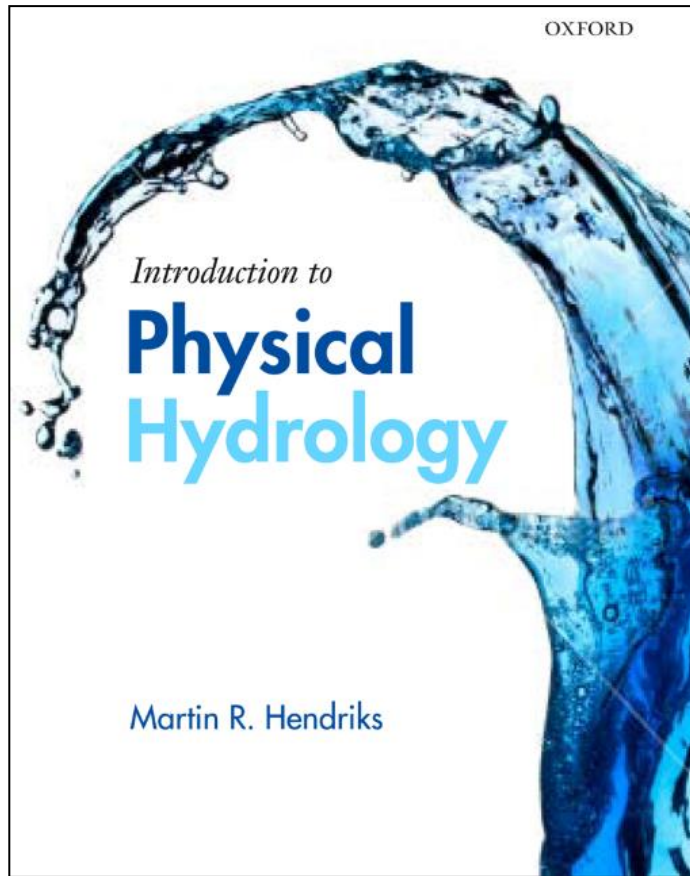
$$\ln Q_t = -\alpha t + \ln Q_0$$

Hydrograph separation

<https://www.youtube.com/user/MartinRHendriks/videos>



Textbook



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