

پروژه روندیابی مخزن

برنامه عمومی روندیابی مخزن را بنویسید. پاسخ خود را با مقادیر مسئله زیر صحت سنجی کنید.

Discharge from a reservoir is over a spillway with discharge characteristic $Q(\text{m}^3\text{s}^{-1}) = 110 H^{1.5}$, where H m is the head over the spillway crest. The reservoir surface area is 7.5 km^2 at spillway crest level and increases linearly by 1.5 km^2 per metre rise of water level above crest level. The design storm inflow, assumed to start with the reservoir just full, is given by a triangular hydrograph, base length 36 h and a peak flow of $360 \text{ m}^3\text{s}^{-1}$ occurring 12 h after start of inflow. Estimate the peak outflow over the spillway and its time of occurrence relative to the start of the inflow