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Question: Q3. A 200 g/l solution of common salt was discharged into a str...



Q3. A 200 g/l solution of common salt was discharged into a stream at a constant rate of $0.025 \text{ m}^3/\text{s}$. The background concentration of the salt in the stream water was found to be 10 ppm. At a downstream section where the solution was believed to have completely mixed, the salt concentration was found to reach an equilibrium value of 45 ppm. Estimate the discharge in stream.

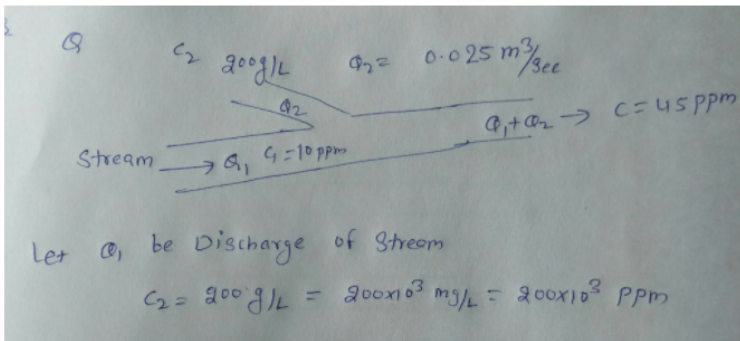
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Expert Answer



GKMeena answered this
906 answers

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See answer

Suppose that the parameters for Horton's equation are $f_0 = 3.0 \text{ in/h}$, $c = 0.53 \text{ in/h}$, and $A = 4.182 \text{ h}^{-1}$. Determine the infiltration rate and cumulative infiltration after 0, 0.5, 1.0, 1.5, and 2 h. Plot both as functions of time.

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Q: Q4. Stage-discharge data for a river was used to extract following information. Determine the stage corresponding to zero discharge Table 2: Stage-Discharge Data Stage, G (m) Discharge, Q (m³s): 100 200 400 25.08 25.84 26.85

A: See answer

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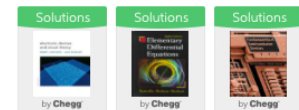
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Q: Q1. The stage-discharge data of a river are given below. Establish a stage discharge relationship to predict the stage for known discharge. Assume the stage value for a zero discharge as 20.50 m. Also determine the stage of river corresponding to a discharge of 2600 m³/s. Table 1: Stage discharge data Stage (m): 21.95 22.45 22.8 23.23.4 23.75 23.65 Q (m³/s)100 220 295 400 490 500 64...

A: See answer

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