

CEE3430 Engineering Hydrology

Homework 8. Runoff Generation

Date: 3/14/11

Due: 3/21/11

Learning Objectives.

- Be able to use the terminology used in hydrology and the study of rainfall-runoff processes.
- Be able to describe the processes involved in runoff generation.
- Be able to distinguish between infiltration excess, saturation excess and subsurface stormflow runoff generation mechanisms and identify when and where each is more likely to occur.
- Be able to describe the physical factors resulting in the occurrence of runoff by the different mechanisms.

Create a user account for yourself in the Rainfall Runoff Processes online module at <http://www.engineering.usu.edu/dtarb/rrp.html>. Please use your real name so I can identify you and give you credit. You do not need to actually hand anything in on this homework. I can view your results in this system and will verify your work and assign a grade based on the scores the system gives you. You may do each quiz multiple times. I will use the highest score you get by the due date. When you repeat quizzes the system may (randomly) generate different numbers to use in the questions, so do not blindly repeat answers from a previous attempt.

1. Work through the material in chapter 1 of this module and do the quiz at the end. .
2. Work through the material in chapter 2, do the quiz.
3. Work through the material in chapter 3, do the quiz.
- ~~4. Work through the material in chapter 4, do the quiz.~~