

CVE 472

5. Probability Plotting and Frequency Analysis



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Outline

Text book:

The following sections and examples are included from Chapter 7:

- Probability Plotting (page 133)
- Analytical Hydrologic Frequency Analysis (page 139-152)
 - Example 7.1 (p.147)
 - Example 7.2 (p.148)

Exercises

Page 158 and 160:

- **7.13**
- **7.14**
- **7.15**
- **7.16**
- **7.17**
- **7.18**
- **7.19**

Outline

Auxiliary Book: Water Resources Engineering by R.A. Wurbs and W.P. James, Prentice Hall, 2002.

- Analytical Probability Distributions (Frequency Analysis)
 - Normal and Lognormal Distributions
 - Pearson Type III and Log Person Type III Distributions
 - Gumbel Distribution
 - Example Problems Applying the Alternative Distributions
 - Example 7.5 and 7.6
 - Frequency Graphs