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Fall 2019

CE 621-851: Hydrology

Y. Ding

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CE 621 - Hydrology Section: 851

Fall 2019

Text: Hydrology and Floodplain Analysis by Bedient, Huber, and Vieux. 4th edition. Pearson/Prentice Hall. 2008.

ISBN-13:978-0-13-174589-6 ISBN-10:0-13-174589-1

Instructor:

Professor Y. Ding, Room 264 Colton Hall, ding@njit.edu, Phone#: 973-642-7046

Prerequisite: undergraduate fluid mechanics. The statistical nature of precipitation and runoff data is considered with emphasis on floods and droughts. The flow of groundwater is analyzed for various aquifers and conditions. Flood routing, watershed yield, and drainage problems are considered.

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Week	Sections	Topics
1	1.1-1.6	Hydrologic Cycle and Weather
2	1.7-1.9	Hydrologic Losses
3	2.1-2.5	Hydrologic Analysis
4	2.6-2.8	Hydrologic Analysis
5	3.1-3.4	Frequency Analysis
6	3.5-3.8	Frequency Analysis
7	4.1-4.3	Flood Routing
8	Exam-1	
9	4.4-4.7	Flood Routing
10	6.1-6.6	Urban Hydrology
11	7.1-7.4	Floodplain Hydraulics
12	7.5-7.8	Floodplain Hydraulics
13	8.1-8.	Groundwater Hydrology
14	Handout	Project
15	Exam-2	

GRADING:

HW	20 points
Project	20 points
Exam 1	30 points
Exam 2	30 points

The grade scheduling:

8
C = 70 to 74
D = 60 to 69
F = 59 or less
W = Voluntary before deadline (school schedule)

EXAMs:

Generally, calculator is need for all exams. No other electronic device, storage medium, or accessory of any kind, is allowed during any exam.