

CE 3372 Water Systems Design

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This is the electronic instructor's notes for Dr. Cleveland's section(s) of CE 3372 at Texas Tech University.

These instructor's notes are intended to **parallel** the regular textbook: <https://www.amazon.com/Hydrology-Hydraulic-Systems-Ram-Gupta/dp/1577664558>

The course content is entirely deployed on a web server hosted at Amazon Web Services at <http://54.243.252.9/ce-3372-webroot/>. This book is located on the same server at http://54.243.252.9/ce-3372-webroot/ce3372-jb/ce3372jb/_build/html

Note

2025 update

Suggested Citation

Theodore G. Cleveland (2025), *Water Systems Design: Instructor's Notes for CE 3372 at TTU*. Department of Civil, Environmental, and Construction Engineering, Whitacre College of Engineering, <https://doi.org/10.18738/T8/TOKMNQ>.

Copyright Information

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"Water Systems Design Illustration" generated by OpenAI's DALL·E, January 2025.

The links in the active book themselves may access **other** copyrighted materials. I have taken efforts to correctly attribute such links, but have likely missed some - if you find these please let me know so we can properly attribute (or replace with a public domain equivalent)!

Note

The information below is of use to other potential institutional users of this book.

GitHub Repository This entire course (book, and exercises) is contained in a public repository on GitHub [dustycat/ce-3372-webroot](https://github.com/dustycat/ce-3372-webroot)

How to Use

1. Clone the entire repository to /var/www/html/ce-3372-webroot. Have your main index link to this directory i.e.
`http://your-fqdn-server.org/ce-3372-webroot/` You can see working example at <http://54.243.252.9/ce-3372-webroot/>
2. If you plan to modify things, many of the internal links use IP/hostname == `54.243.252.9`, so you will have to change these addresses to your server. The string editor `sed` will become your friend!

- The `3-Readings` directory contains excerpts of copyrighted materials and should be exposed with care on a web server; generally because no one reads anymore, its probably safe enough to protect using an `.htaccess` approach. In my courses one accesses things through the syllabus links, and the syllabus itself is best accessed through our LMS (Blackboard).

Book History

- Update 2025 - add content from "Cleveland, T. G. (2024) SWMM by Example: A training tool and on-line modeling environment, Department of Civil, Environmental,

and Construction Engineering, Whitacre College of Engineering"

- Update 2023 - add content from "Cleveland, T.G. (2023). Hydraulic Network Simulation with EPANET and Python. Notes to accompany Metropolia ICT Summer School 2023 Course TX00FJ07"
- Update 2022 - create implementation(s) of EPANET and SWMM using freeswmm.ddns.net
- Created as JupyterBook (circa 2021)
- Initial build as MkDocs (circa 2020)

End of Section