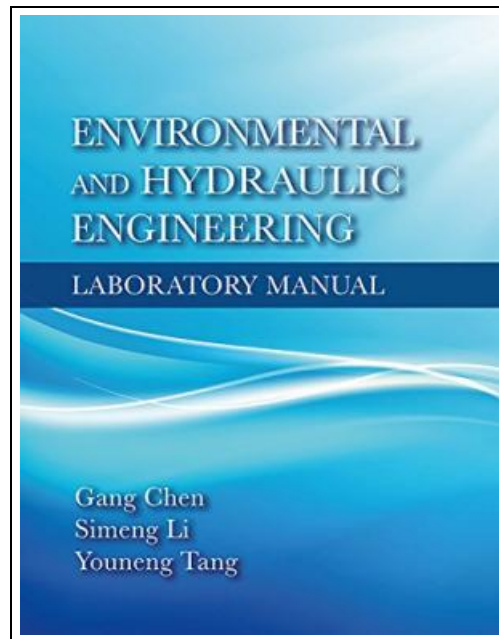


## Environmental and Hydraulic Engineering Laboratory Manual



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J Ross Publishing, United States, 2017. Spiral bound. Condition: New. Lab Manual. Language: English . Brand New Book. This laboratory manual is comprised of 14 laboratory experiments, covering topics of water quality, water treatment, groundwater hydrology, liquid static force, pipe flow, and open channel flow. These experiments are organized with a very logical flow to cover the related topics of environmental and hydraulics engineering within university-level courses. This state-of-the-art manual is divided into two sections-environmental engineering experiments and hydraulic engineering experiments-with seven experiments for each section. It provides the basic hands-on training for junior-year civil and environmental engineering students. In each experiment, fundamental theories in the topic area are revisited and mathematic equations are presented to guide practical applications of these theories. Tables, figures, graphs, and schematic illustrations are incorporated into the context to give a better understanding of concept development, experimental design, and data collection and recording. Each experiment ends with discussion topics and questions to help students better understand the content of the experiment. This manual mainly serves as a textbook for an environmental and hydraulics engineering laboratory course. Professionals and water/wastewater treatment plant managers may also find this manual of value for their daily jobs. In addition, students in related areas can use this manual as a reference and the general public may use it to educate themselves on water quality testing and water flow. Key Features \* Contains core laboratory experiments for both environmental and hydraulic engineering so one manual can be used for both courses \* Well organized perforated data sheets accompany each experiment to facilitate laboratory reports \* Color graphics help students visualize experiment procedures \* Features a lay-flat spiral bound design for maximum ease of use in the laboratory.



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