Drinking-Water Distribution, Sewage, and Rainfall Collection

Second Edition

This book is the first manual written in the French language that deals with urban solutions to the problems of collecting and distributing drinking water and discharging sewage. Hydraulic principals are presented clearly and used to solve a wide range of problems. Through the many examples provided, engineers and technicians alike will learn how to perform calculations for storm water networks, sanitary sewage networks and water distribution networks after computing flowrates and flowrate variations in time and space. The manual also presents the different types of commercially available pipes (concrete, plastic and cast iron) and their characteristics, such as commercial diameters.

The work clearly presents all materials required to design a distribution and collection network from initial selection to final installation and describes accessories such as sewer manholes, street inlets, fire hydrants, valves, reservoirs, intakes, water and sewage connections, inverted siphons, flow measurement equipment and pumping stations.

The author also outlines calculation methods for the flowrates and water volumes necessary for fire-fighting equipment and explains how to calculate loads on buried pipelines so that the appropriate materials can be chosen. Described pipeline trench characteristics include wall depth, width, slope, bedding thickness and design. A chapter dealing with water-borne diseases and related protection methods is also provided.

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