# 摘 要

随着科学的发展，经济的增长，人口的增加，水污染严重化，原本稀薄的水资源越发显得重要，而人们对水质的要求又日益提高，单体平均用水量要求也不断增加，优质、经济的饮用水的设计显得越发重要了。

为了解决浙江省湖州市南浔区城市供水问题，本人在宋铁红老师的指导下，通过查阅大量的资料，借鉴国内一些水厂的运行经验，在力求经济上合理，技术上先进的基础上，为提供浙江省湖州市南浔区的生活饮用水、工业用水及消防用水做出了设计。

本设计包括供水管网设计，取水构筑物的选择以及设计，一泵站设计，净水厂工艺流程以及参数设计，二级泵站设计和工程概算等内容。取水构筑物采用岸边合建式取水构筑物；一泵站设计水量按近期人口最高日平均时用水量计算；净水厂采用混合、絮凝、沉淀、过滤、消毒等基本工艺，设计的主要处理构筑物包括稳压井、网格絮凝池、斜管沉淀池、虹吸滤池和清水池。本设计最大供水量为：41705.88$m^3/d$；送水泵站设计考虑远期的楼层数为 6 层，服务水头为 28m。

**关键词：　给水管网；　一泵站；　二泵站；　水厂构筑物**

# Abstract

Along with population increase with pollution strict densification，Now the whole world is facing the water resources crisis，But along with science and t-echneology development，People's living standard enhances unceasingly，The adding water archery target request enhances day by day，The water consumption also unceasingly increased.The tap water design holds the important status in ours daily life and the urban development.

In order to improve the ability of analyzing the problem . I complete this design using the knowledge that I have learned with the deep of other books and reference to the experience .This design mainly providesSichuan the local M city the life tap water, the process water and the fire water used.This design including service pipe net design，Takes the water construction design，A pumping station design，clean water factory design，Supplies water the pumping station design and the project budgetary estimate，Takes the water construction to use gathers constructs the type shore to take the water construction，A pumping station design water volume according to maximum daily average when water consumption computation.

Only water works processing craft for mix, flocculation, precipitation, filtration, disinfection (chlorine disinfection)，The main processing construction design including kills the well steadily, toward the multiple partition board flocculation pond, tank, the reservoir of clean water design，this design biggest volume of diversion is: 41705.88$m^3$/d; Supplies water the pumping station design consideration forward floor number is 7,The service flood peak is 32m。

Keywords： Water Supply Network; Water pumping station； Lifting station； Waterwork Structure

# 目录