

## **CHAPTER 3**

### **SYSTEM ANALYSIS**

The purpose of this chapter is to determine the ability of the City's existing potable water system to meet current and future water quality and system demand requirements. Items discussed in this chapter include water system design standards, water quality analysis, facility analysis, operations and maintenance, system deficiencies, and proposed system improvements.

#### **SYSTEM DESIGN STANDARDS**

WAC 246-290 contains general criteria and standards that must be followed in development of public water systems. In addition, the Washington State Department of Health's (DOH) 2001 Water System Design Manual (WSDM) provides specific guidance for water system design.

#### **GENERAL FACILITY STANDARDS**

DOH relies on various regulations, publications, and the purveyor to establish design criteria. WAC 246-290 is the primary drinking water regulation used by DOH to assess capacity, water quality, and compliance with drinking water standards. The WSDM serves as guidance for the preparation of plans and specifications for Group A public water systems in compliance with WAC 246-290. The WSDM also references the following codes and guidelines.

- Uniform Building Code (the International Building Code was adopted by all state and local agencies in 2004)
- Uniform Plumbing Code
- Recommended Standards for Water Works (RSWW), Ten State Standards
- Local codes
- American Water Works Association (AWWA) Standards
- American Society of Civil Engineers (ASCE) Standards
- American Public Works Association (APWA) Standards

Table 3-1 lists the suggested WSDM guidance and the City's policies with regard to each standard for general facility requirements. The design standards for the following subjects are discussed in the order shown below:

# Chapter 3 System Analysis And Design Rutgers

**Ernest O. Doebelin**



### **Chapter 3 System Analysis And Design Rutgers:**

**Artificial Intelligence in Engineering Design** Bozzano G Luisa, 2012-12-02 Artificial Intelligence in Engineering Design Volume II Models of Innovative Design Reasoning About Physical Systems and Reasoning About Geometry focuses on the processes programs techniques and technologies involved in the employment of artificial intelligence in engineering design The selection first takes a look at the automated reuse of design plans in BOGART and ARGO an analogical reasoning system for solving design problems Topics include analogy mechanisms in ARGO analogical reasoning and learning ARGO development environment using VEXED to construct a design plan and how BOGART reuses a design plan The text then ponders on retrieval strategies in a case based design system and case based design including the functions to structure design task in the domain of physical devices design retrieval proposition and modification and the multi layered case representation The publication examines mechanism comparison and classification for design a case based approach to the design of mechanical linkages and studies of heuristic knowledge based approaches for automated configuration generation and innovation Topics include applications of stress field estimation to geometric optimization simplification and abstraction operators mechanism comparison and classification linkage synthesis analytic synthesis techniques and system architecture The selection is a valuable reference for readers interested in the use of artificial intelligence in engineering design

**Applied Mechanics Reviews** ,1986 *Systems Analysis for Librarians and Information Professionals* Larry Osborne, Margaret Nakamura, 2000-03-15 Rational and methodical systems analysis has been used successfully by business industry and research organizations This new edition employs basic elements from the business world to show users how to apply systems analysis effectively to any library setting Updating Osborne and Nakamura s previous work the book fills a tremendous need in the field It introduces readers to the steps in the process from identifying and defining problems and collecting and analyzing data to selecting strategies for implementation and proof of the systems The limitations of systems analysis an overview of the rationale for applying it to problem situations and many real life examples illustrate the principles A new chapter on object oriented techniques additional idea generating techniques and the inclusion of case studies invites readers to put these principles into practice Practical and easy to read this work will benefit students of information studies as well as professionals in the field particular *Systems Serving People: a Breakthrough in Service Delivery* Marvin Rosenberg, Ralph Brody, 1974

**Artificial Intelligence in Engineering Design: Models of innovative design, reasoning about physical systems, and reasoning about geometry** Christopher Tong, D. Sriram, 1992 V 1 Design representation and models of routine design v 2 Models of innovative design reasoning about physical systems and reasoning about geometry v 3 Knowledge acquisition commercial systems and integrated environments **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 **Artificial Intelligence in Engineering Design** R. A. Adey, Robert A. Adey, 1993 **ERDA Energy Research Abstracts** United States. Energy

Research and Development Administration. Technical Information Center,1977      *Reinforced Concrete* Edward G. Nawy,2000 This new edition of Edward G Nawys highly acclaimed work reflects the very latest ACI 99 Building Code and includes these major changes and additions Numerous alternate solutions using SI Units and lists of equations in SI format for the various topics A completely rewritten chapter on seismic design of buildings to comply with the major changes in the ACT 318 Code and detailing the new International Building Code provisions IBC 2000 on seismic design which replaced all other existing codes in the US The chapter has several new examples on confinement shear wall design and detailing in accordance with the IBC 2000 Code A new section with design examples on the new provisions for crack control a new section on flexure using the limits strain approach of Appendix B in the ACI Code All examples in the previous edition using the standard stress approach have also been solved by the strain limits approach A new section on biaxial bending with new design examples using the reciprocal load approach as well as an easier to use Modified Load Contour method A comprehensive chapter on concrete materials and design of concrete mixtures for normal strength and for high strength h

**Environment and Planning** ,1989      *Journal of Quality Technology* ,1977 A quarterly journal of methods applications and related topics      **Biomedical Instruments** Walter Welkowitz,Sid Deutsch,1976      **Simplified Reinforced Concrete** Edward G. Nawy,1986 Very Good No Highlights or Markup all pages are intact      Engineering Experimentation Ernest O. Doebelin,1995 This text presents an organized treatment of the methods and tools used in engineering experimental work It is designed for students laboratory courses and practicing engineers engaged in experimental test and development work

Naval Engineers Journal ,1980      **Computational Linguistics** ,2002      **Dissertation Abstracts International** ,2005

**Science** ,1933      **National Membership Roster** American Marketing Association,1948      **Who's who in Technology Today** ,1982

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