

Environmental Engineering Concrete Structures

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This report presents recommendations for structural design, materials, and construction of concrete tanks, reservoirs, and other structures commonly used in water containment, industrial and domestic water, and wastewater treatment works, where dense, impermeable concrete with high resistance to chemical attack is required. Special emphasis is placed on a structural design that minimizes the possibility of cracking and accommodates vibrating equipment and other special loads. Design and spacing of joints are considered. Proportioning of concrete, placement, curing, and protection against chemicals are also described. Information on seismic design is included.

Keywords: admixtures; aggregates; concrete; chemical attack; coatings; concrete containment; concrete durability; concrete finishing (fresh concrete); concrete; cracking (fracturing); crack width and cracking; curing; deflection; earthquake resistant structures; environmental engineering; finishes; floors; formwork (construction); foundations; joint systems; joints (seals); live loads; mix proportioning; packing; permeability; placing; protective coatings; quality control; reinforced concrete; reservoirs; sanitary engineering; sewage treatment; stress; structural design; tanks (containers); transportation; torque; vibration; volume change; wastewater treatment; water-concrete ratio; water supply; water treatment.

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CHAPTER 1 — SPECIAL REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES

1.1 — Introduction

Environmental engineering concrete structures pose some problems uncommon in other uses of concrete. In

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Michael Rajnik



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