[1] Ahhh, Concrete.

Ahhh....

What's not to like about concrete? What's not to *love* about this child of the ancient world, a child who speaks such a modern tongue? What's not to enjoy about a structural material which you are allowed to *touch*...?

Perhaps that's overdoing it. Concrete can also be a salty dog, a wretched mess, a crude brute. A building site for concrete construction is always wet... and dirty. It's slow. It's *retarded*. And here in the US of A, that's almost a mortal sin.

History

Cement and Concrete
Cement
Aggregates and Water
Admixtures
... Reinforcing

Making and Placing Concrete
Proportioning Concrete Mixes
Handling and Placing Concrete
Curing Concrete

Formwork
Reinforcing
The Concept of Reinforcing

Steel Bars for Concrete Reinforcing
Fabrication and Erection of Reinforcing Bars
Reinforcing a Simple Concrete Beam
Reinforcing a Continuous Concrete Beam
Reinforcing a Structural Concrete Slab
Two-Way Slab Action
Reinforcing Concrete Columns

Prestressing
Pretensioning
Posstensioning
ACI 301

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SiteCast Concrete Framing Systems

Why does this chapter use the term "sitecast" concrete?
Casting a concrete slab on grade
 pouring and finishing a slab on grade
Casting a concrete wall
 insulating concrete forms
Casting a concrete column
One-way floor and Roof Framing Systems
 one-way solid slab system
 one-way concrete joist system (ribbed slab)
 Wide-module Concrete joist system
Two-way floor and roof framing systems
 Two-way flat slab and flat plate systems
 two way waffle-slab system
Concrete stairs

Sitecast posttensioned framing systems
Selecting a system
Innovations in Sitecast concrete construction
Architectural Concrete
Longer Spans in Sitecase Concrete
Designing Economical Sitecast Concrete Buildings
Sitecast Concrete and Building Codes
Uniqueness of Sitecast Concrete