Special systems of design, 1.10

Specified compressive strength, 19.2.1

Specified concrete cover, 20.5.1

Spirals, 25.7.3

Splices, 25.5

- deformed bars, 25.5.2, 25.5.5, 25.5.6
- deformed wires, 25.5.2
- mechanical, 25.5.7
- welded, 25.5.7
- welded deformed bars, 25.5.3
- welded plain wire, 25.5.4

Stability

- beams, 9.2.3
- properties, 6.6.4.4

Standard hooks, 25.3

Standards, Ch. 3

Stainless-steel reinforcement, 20.2.1.3

Steel fibers, 26.4.1.5, 26.12.7

Steel reinforcement properties, Ch. 20

- durability provisions, 20.5
- embedments, 20.6
- headed shear studs, 20.4
- nonprestressed bars, 20.2
- nonprestressed wires, 20.2
- prestressing bars, 20.3
- prestressing strands, 20.3
- prestressing wires, 20.3
- scope, 20.1

Steel strength, anchors, 17.6.1, 17.7.1

Stirrups, 25.7.1

Strain compatibility, 22.2.1

Strain limit

- nonprestressed beams, 9.3.3
- nonprestressed one-way slabs, 7.3.3
- nonprestressed two-way slabs, 8.3.3

Strength, 4.6

Strength evaluation of existing structures, 4.14, Ch. 27

- analytical, 27.3
- cyclic load test procedure, 27.6
- load test, 27.4
- monotonic load test procedure, 27.5
- reduced load rating, 27.2.5
- scope, 27.1

Strength reduction factors, Ch. 21

Strength reduction factors, anchors, 17.5.3

Strength, specified compressive, 19.2.1

Strength test, 26.12.1.1(a)

Stress limit

- prestressed beams, 9.3.4
- prestressed one-way slabs, 7.3.4
- prestressed two-way slabs, 8.3.4

Stress, prestressing reinforcement, 20.3.2.3, 20.3.2.4, 20.3.2.5

Structural analysis, 4.5, Ch. 6, 18.2.2

- arrangement of live load, 6.4
- diaphragms, 6.2.4.3, 12.4.2
- elastic first-order analysis, 6.6
- elastic second-order analysis, 6.7
- finite element analysis, 6.9
- inelastic analysis, 6.8
- modeling assumptions, 6.3
- second-order effects, 6.2.5.3, 6.6.4, 6.7, 6.8
- simplified method, 6.5
- slender walls, 6.2.4.2, 11.8
- slenderness effects, 6.2.5
- strut-and-tie, Ch. 23, 6.2.4.4
- T-beams, 6.3.2

Structural integrity, 4.10

- beams, 9.7.7
- nonprestressed one-way joists, 9.8.1.6
- one-way slabs, 7.7.7
- precast connections, 16.2.1.8
- two-way slabs, 8.7.4.2, 8.7.5.6, 8.8.1.6

Structural systems, Ch. 4

- composite, 4.12.3, 4.12.4
- construction, 4.13, Ch. 26
- design loads, 4.3
- diaphragms, 4.4.7
- durability, 4.8
- fire resistance, 4.11
- inspection, 4.13, Ch. 26
- load paths, 4.4
- materials, 4.2
- plain, 4.12.5
- precast concrete, 4.12.1
- prestressed concrete, 4.12.2
- scope, 4.1
- seismic-force-resisting system, 4.4.6, 18.2.1
- serviceability, 4.7
- strength, 4.6
- strength evaluation of existing structures, 4.14, Ch. 27
- structural analysis, 4.5
- structural integrity, 4.10
- sustainability, 4.9

Strut-and-tie models, 6.2.4.4, Ch. 23

- curved-bar nodes, 23.10
- design strength, 23.3
- discontinuity, 23.1.2
- earthquake-resistant design, 23.11
- minimum distributed reinforcement, 23.5
- scope, 23.1
- strength of nodal zones, 23.9
- strength of struts, 23.4
- strength of ties, 23.7
- strut detailing, 23.6
- tie detailing, 23.8

