

TABLE OF CONTENTS

1603	Construction Documents	361
1604	General Design Requirements	362
1605	Load Combinations	365
1606	Dead Loads	367
1607	Live Loads	367
1608	Snow Loads	374
1609	Wind Loads	374
1610	Soil Lateral Loads	391
1611	Rain Loads	391
1612	Flood Loads	392
1613	Earthquake Loads	398
1614	Atmospheric Ice Loads	401
1615	Tsunami Loads	401
1616	Structural Integrity	401

CHAPTER 17 SPECIAL INSPECTIONS AND TESTS. 415

Section

1701	General	415
1702	New Materials	415
1703	Approvals	415
1704	Special Inspections and Tests, Contractor Responsibility and Structural Observation	416
1705	Required Special Inspections and Tests	418
1706	Design Strengths of Materials	426
1707	Alternative Test Procedure	426
1708	In-situ Load Tests	426
1709	Preconstruction Load Tests	427

CHAPTER 18 SOILS AND FOUNDATIONS. 429

Section

1801	General	429
1802	Design Basis	429
1803	Geotechnical Investigations	429
1804	Excavation, Grading and Fill	431
1805	Dampproofing and Waterproofing	432
1806	Presumptive Load-bearing Values of Soils	433
1807	Foundation Walls, Retaining Walls and Embedded Posts and Poles	434
1808	Foundations	439
1809	Shallow Foundations	443
1810	Deep Foundations	444

CHAPTER 19 CONCRETE 459

Section

1901	General	459
1902	Definitions	459
1903	Specifications for Tests and Materials	459
1904	Durability Requirements	460
1905	Modifications to ACI 318	460
1906	Structural Plain Concrete	462
1907	Minimum Slab Provisions	462
1908	Shotcrete	463

CHAPTER 20 ALUMINUM. 465

Section

2001	General	465
2002	Materials	465

CHAPTER 21 MASONRY 467

Section

2101	General	467
2102	Notations	467
2103	Masonry Construction Materials	467
2104	Construction	468
2105	Quality Assurance	468
2106	Seismic Design	468
2107	Allowable Stress Design	468
2108	Strength Design of Masonry	469
2109	Empirical Design of Adobe Masonry	469
2110	Glass Unit Masonry	471
2111	Masonry Fireplaces	471
2112	Masonry Heaters	473
2113	Masonry Chimneys	474
2114	Dry-stack Masonry	478

CHAPTER 22 STEEL 479

Section

2201	General	479
2202	Identification of Steel for Structural Purposes	479
2203	Protection of Steel for Structural Purposes	479
2204	Connections	479
2205	Structural Steel	479
2206	Composite Structural Steel and Concrete Structures	480