

- Cermak, J.E., 513, 525, 571, 575
 Chalk, P.L., 395, 407
 change of use (reclassification of structure), 363–364
 characteristic earthquake, 58
 Cheung, J.C.J., 570
 chimneys, 148
 Chinn, J., 447
 Chock, G., 512
 Chopra, A.K., 520
 Chu, S.L., 513
 Claffey, K., 455
 Cluts, S., 462
 Coastal A-zone, 21, 416
 coastal high hazard area (V-zone), 21, 416, 418
 Colbeck, S.C., 434, 458
 cold-formed steel, 127–129, 387
 light-frame construction, 128–129
 quality assurance, 361
 special bolted moment frames, 128
 cold-formed steel special bolted moment frames (CFS-SBMF), 128
 collapse, 378–379
 collector strut, 59
 combination framing detailing requirements, 78
 components, 58, 243, 476. *See also* wind loads (components and cladding); specific type of component
 components and appurtenances, 47
 composite steel, 134
 concentrated live loads, 409
 concentrically braced frame, 59
 concrete
 anchors, 115, 484
 plain, 58
 prestressed, 360
 reinforced, 58
 seismic design/detailing, 129–134, 489–491
 structural, 360
 testing of structural, 362
 concrete piles, 490–491
 metal-cased, 134
 seismic design category C, 131–132
 seismic design category D-F, 132–134
 concrete structures, 134
 consensus standards, 6
 construction documents, 58
 containment systems, secondary, 149
 continuous special inspection, 60
 contraction and expansion, 365, 582
 controlled drainage, 43, 448
 conveyor systems, 125
 Cook, N.J., 563
 Cooney, R.C., 580
 Cornell, C.A., 407
 Corotis, R.B., 394, 395, 407, 433
 corrugated sheet metal anchors, 136
 Cortinas, J.V. Jr., 455
 coupling beam, 58, 135–136
 couplings, 120, 487
 crane loads, 16, 411
 critical load condition, 245
 Culver, C.G., 407
 curved roofs, 411, 430
 Daly, S., 419, 422
 damped response modification, 190–192
 damping device, 179
 damping systems
 damped response modification, 190–192
 definitions, 179
 general design requirements, 182–183
 nonlinear procedures, 184
 notation, 179–181
 response spectrum procedure, 184–187
 testing, 195–197
 database-assisted design, 576
 Davenport, A.G., 557
 dead loads, 11, 397, 399t–403t
 Deaves, D.M., 547
 debris object weight, 420
 debris velocity, 421
 decks, 408
 deep flexural members, 136
 deflection, 365
 deformability, 58
 deformation, 58
 de Marne, H., 428
 depth coefficient, 419t, 420f, 421
 design acceleration parameters, 208–209
 designated seismic systems, 58, 451–452
 design displacement, 165
 design earthquake, 58
 design earthquake ground motion, 59
 design flood, 21, 415–416
 design flood elevation (DFE), 21
 design flood elevation enclosures, 416
 design force, 243
 design loads, 21, 404t–406t, 416
 design pressure, 243
 design rain loads, 43, 447
 design response spectrum, 66–67, 66f, 208
 design spectral acceleration parameters, 65
 design strength, 1, 61
 detailed plain concrete shear wall, 130–131
 detailed plain concrete structural wall, 129