

- minimum uniformly distributed/minimum concentrated, 17–19t, 414t
 - not specified, 13
 - reduction in, 14–16, 410–411
 - statistics, 414t
 - uniformly distributed, 13, 407
- “lives at risk,” 382
- load and resistance factor design, 2, 387, 461
- Load and Resistance Factor Standard for Engineered Wood Construction* (ASCE 16-95), 469
- load and resistance statistics, 391
- load basis, 22, 417
- load combinations
 - for extraordinary events, 9, 393–395
 - factored loads, using strength design, 7–8, 387–391
 - including atmospheric ice loads, 8, 389, 393
 - including flood load, 7, 389, 393
 - including self-straining loads, 8, 389–390, 393
 - nominal loads, using allowable stress design, 8–9, 391–393
 - for nonspecific loads, 8, 390–391
 - with overstrength factor, 87
 - symbols and notation, 7, 387
- load effects, 1
- load factor, 1
- load requirements (general)
 - accepted/anticipated reliability indexes, 374t
 - classification of buildings/other structures, 5–6, 380–384
 - definitions, 1–2
 - general structural integrity, 4–5, 377–380
 - load tests, 6, 384
 - performance-based procedures, 3, 375–377
 - self-straining forces, 4, 377
 - serviceability, 3, 377
 - strength and stiffness, 2–3, 373
 - symbols and notations, 2
- loads
 - defined, 1
 - nonbuilding structure, 144
- Longinow, A., 378
- longitudinal reinforcement ratio, 60
- long-term deflection, 365
- Lorenzen, R.T., 427
- Lott, N., 455
- low-deformability element, 58
- low-rise buildings, 318–319, 318t, 319t
- low-slope roofs, 429–430
- Luchian, H., 571
- Lutes, D.A., 427
- Mackinlay, I., 427, 428
- Macklin, W.C., 457
- Madsen, H.O., 388
- Magana, R.A., 490
- Main, J.A., 576
- main wind-force resisting system (MWFRS), 243, 245–246, 508. *See also* wind loads on buildings—MWFRS (directional procedure)
- Mallory, J.H., 455
- Mans, C., 564
- mansard roof, 283f, 322
- Manufacturers Standardization Society (MSS), 486
- Manufacturers Standardization Society of the Valve and Fitting Industry (MSS), 236
- mapped acceleration parameters, 65
- Marino, F.J., 447
- marquees, 408
- Marshall, R.D., 508, 571
- masonry
 - anchors, 115, 484
 - quality assurance, 360
 - seismic design/detailing, 134–136, 491
 - testing of structural, 362
- Masonry Society, 236, 375
- Masonry Standards Joint Committee, 491
- masses, support of, 91, 150, 494
- mass irregularities, 495
- materials and constructions, weights of, 11
- maximum along-wind displacement, 519
- maximum considered earthquake geometric mean peak ground acceleration, 60
- maximum considered earthquake ground motion, 60
- maximum considered earthquake response spectrum, 67
- maximum considered earthquake spectral response acceleration parameters, 65
- maximum displacement, 165
- maximum effective ductility demand, 192
- maximum response ratio, 420t, 422
- Mayne, J.R., 571
- McCormick, D.L., 481
- McCormick, T., 455
- McGuire, R.K., 407
- mean recurrence interval (MRI), 29, 47, 48, 49, 52f, 55f, 576
- mean roof height, 243
- mechanical components
 - quality assurance, 361
 - seismic design requirements for, 119, 120t–121t, 121–122, 484–488
 - supports for, 122
- mechanical equipment, testing, 362
- mechanically anchored tanks or vessels, 60