INDEX

medical equipment, 484	similar to buildings, 60, 145–148, 493–494
Meehan, J.F., 427	structural analysis procedure selection, 139, 493
Mehta, K.C., 389, 507, 525	structural design requirements, 140-145
Melbourne, W.H., 570	supported by other structures, 139–140
member design strength, 2	tanks and vessels, 149-160, 497-498
Metal Buildings Manufacturers Association, 411	nonlinear response history procedure, 480
Mikitiuk, M., 433	analysis requirements, 162
mill test reports, 361	design review, 163
Minor, J.E., 513, 524, 526	ground motion and other loading, 162
misuse, and collapse, 378	modeling, 162
Mitchell, G.R., 427	response parameters, 163
mobile units, 483	nonlinear static pushover analysis, 480
modal analysis procedure, 201–202	nonspecified load combinations, 8
modal response spectrum analysis, 94, 480	nonstructural components, 111–125, 483–488
Mohammadian, A.R., 571	anchorage, 115
moment frame, 59	architectural components, 112t, 116–119, 117t
monoslope roof, 283f, 287f, 322, 341f-342f, 552	certification for designated seismic systems,
Moody, M.L., 447	483–484
Mozer, J.D., 455	component importance factor, 111
MSJC Standards (Code and Specification), 491	construction documents, 113
Mulherin, N.D., 455	exemptions, 483
multiple attachments, 115	general requirements, 112–113, 112t
multiple folded plate roofs, 430, 431	mechanical and electrical components, 112t,
multiple risk categories, 5	119–125, 120t–121t
multispan gable roofs, 340f	reference documents, 112
Murray, T., 581	seismic demands, 113–115
Murray, T.M., 581	nonstructural wall, 61
•	normal impact loads, 418, 419
Nair, R.S., 394	1
Nakaki, S., 490	occupancy, 1
National Building Code of Canada, 427	occupancy importance factor, 470–471
National Earthquake Hazards Reduction Program	one-way slabs, 411
(NEHRP), 467, 493	openings, 243
National Flood Insurance Program (NFIP), 415	open signs, 313f
National Greenhouse Manufacturers Association, 429	ordinary precast structural wall, 129
National Institute of Standards and Technology	orientation coefficient, 421
(NIST), 394	O'Rourke, M., 427, 431, 432, 434, 435
NEHRP Recommended Provisions for the	O'Rourke, M.J., 433
Development of Seismic Regulations for New	orthogonal, 60
Buildings and Other Structures, 467	OSHA (Occupational Safety and Health
NFPA (National Fire Protection Association), 236	Administration), 6
nominal ice thickness, 459	other structures. See also wind loads on other
nominal loads, 1, 8–9	structures and building appurtenances
nominal strength, 1, 61	additions and alterations to, 6
nonbearing wall, 61	classification of, 5–6
nonbuilding structure. See also specific structure	defined, 1
defined, 139	risk category for loads, 2t
design of, 139	out-of-plane bending, 116
fundamental period, 199, 201, 203	overstrength factor, 86–87
not similar to buildings, 148–149, 494–495	owner, 60
reference documents, 139, 495–496, 496t	•
seismic design requirements, 139–160, 141t,	Paine, J.C., 433
142t–143t	parapets