seismic design requirements, 483	quality assurance provisions, 359–362
snow loads, 433	contractor responsibility, 360
wind loads, 262, 264, 309, 321, 332, 349f, 354f,	details, 359–360
356f, 555, 564–566, 572	reporting/compliance procedures, 362
partial loading	scope, 359
live loads, 408	special inspection and testing, 360–361
snow loads, 31–32, 38f, 431	structural observations, 362
partitions, 408	testing, 361–362
defined, 60	
seismic design requirements, 118–119	raceways, 123, 486
passenger vehicle garages, 410–411	Rack Manufacturers Institute (RMI), 236
p-delta effect, 1, 60	Rainer, J.H., 581
Peabody, A.B., 455, 458	rain loads
peak ground acceleration, 209	controlled drainage, 43, 448
Peck, R.B., 397	design rain loads, 43, 447
Peir, J.C., 407	ponding instability, 43, 447–448, 450f–451f,
performance-based engineering applications,	452t
390	roof drainage, 43, 447
Periard, G., 461	rain-on-snow surcharge load, 33, 434, 435, 436
periodic special inspection, 60	Rawlins, C.B., 456
Perry, D.C., 526	Rayleigh-Ritz method, 494
Peter, B.G.W., 427	recognized literature, 243
Peterka, J.A., 460, 509, 510, 570, 571, 575	registered design professional, 60
pile	reinforcing steel, 360
anchorage requirements, 99–100	Reinhold, T.A., 526, 575
batter piles, 99	relative displacements, 98, 112, 114–116, 119, 484
defined, 60	reliability index selection, 391
detailing requirements for, 131	reporting and compliance procedures, 362
pile group effects, 100	required strength, 61
pile soil interaction, 100	resistance factor, 1
splices of pile segments, 100	response history procedure, 170, 173
pile cap, 60	response modification coefficients (R), 134
piping systems, 124, 486–488	response spectrum procedure
pitched free roofs, 288f, 552	isolated structures, 169–170, 173
pitched roof, 411	structures with damping systems, 184–187
plan irregularities, 493	Reynolds numbers, 357, 461
Pohlman, J.C., 455	Richmond, M.C., 455, 456
pole-type structures, 98–99	ridge, 243
ponding instability	Rigato, A., 576
rain loads, 43, 447–448, 450f–451f, 452t	rime, 47
snow loads, 33, 434	risk-adjusted maximum considered earthquake ground
population risk, 382	motion response accelerations, 60
Powell, M.D., 511, 515	risk categories, 380–382, 382f
Power, B.A., 457	risk category, 1, 2t, 5, 5t
power actuated fasteners, 115	Risk Management Plan, 383
precast structural walls, 129, 130	Robbins, C.C., 455
Pressure Model, 575	Robertson, A.P., 563
pressure piping systems, 124, 488	robustness, 393
pressure vessels, 125	rock, shear wave velocity for, 203–204
"principal action–companion action" format,	rocking stiffness, 199, 501
390	Ronan Point disaster, 378
probability-based limit states design, 390	roof drainage, 43
promenades, 408	roof live load, 13, 15–16, 408