Seltz-Petrash, A.E., 378	ground, 29, 30t, 34–35f, 408f, 425–427,
Sentler, L., 407	443t–445t
separation joints, 134	methodology, 425
serviceability considerations, 365, 584f-591f	partial loading, 31–32, 38f, 431
camber, 365, 582	ponding instability, 33, 434
drifts of walls and frames, 365, 580-581	rain-on-snow surcharge load, 33, 434, 435, 436
durability, 365, 582	in Rocky Mt. states, 427
expansion and contraction, 365, 582	roof drifts, 32–33, 40f, 41f
long-term deflection, 365, 582	roof projections and parapets, 433
vertical deflections, 365, 579–580	sliding snow, 33, 433–434
vibrations, 365, 581	sloped roof, 31, 430–431
serviceability wind speeds, 512	symbols, 29
service lines, 123	thermal factor, 30t
Shahid, S., 509, 510	unbalanced roof, 32, 37f, 431–433, 435, 436
Shan, L., 461	soft clay, 203
shear building model, 494	soil loads, 11–12, 11t, 397–398, 404t–406t
shear keys, 136	soil-structure interaction, 501
shear panel, 61	equivalent lateral force procedure, 199–201,
•	201f
shear walls 78, 82f	
shear walls, 78, 82f	modal analysis procedure, 201–202
shear wave velocity average, 204	Solari, G., 519
Sheet Metal and Air Conditioning Contractors' National Association, 486	Southern Building Code Congress International (SBCCI), 447
shielding, 506	space frame system, 59
Siess, C.P., 394	special flood hazard areas, 21, 415
sign convention, 245	special hydraulic structures, 149
signs	special inpact loads, 411, 418
open, 313f	specific local resistance method, 379
•	÷
solid attached, 308, 563–564	Speck, R. Jr., 432
Simiu, E., 456, 461, 511, 513, 576	St. Pierre, L.M., 576
Simpson, R., 511	stacks, 148
Sinclair, R.E., 455	stadiums, 409–410
site class, 61, 65, 203–204	standard penetration resistance average, 204
site classification procedure	Stanton, J., 490
site class definitions, 203–204	Stathopoulos, T., 525, 564, 571
site class F soil, 203	steel
site-specific ground motion procedures, 67	cables, 129
SJI (Steel Joist Inst.), 236	cold-formed, 127–129
Skerlj, P.F., 511	deck diaphragms, 129
sloped roof, 31, 430–431, 436	reinforcing, 360
Smilowitz, R., 394	seismic design/detailing, 127–129
Smith, C.E., 519	structural, 127, 360
snow, 47, 458	testing of reinforcing/prestressing, 361–362
snow loads, 440f–442f	testing of structural, 362
balanced and unbalanced loads for roofs, 37f,	steel intermediate moment frames, 79
39f, 40f	Steel Joist Institute (SJI), 447
configuration of drifts on lower roofs, 41f	steel ordinary moment frames, 79
determining drift height, 41f	stepped roofs, 339
determining roof slope factor, 36f	storage racks, 61
in excess of design value, 425	story, 61
existing roofs, 33	story above grade, 470, 470f
exposure factor, 30t	story above grade plane, 61
flat roof, 29, 31, 427–430, 435, 436	story drift, 61, 92, 97, 97t, 174-175