

Subject Index

A

Aggregates, 195
 ASTM standards, 152
 D 61: 16
 D 1682: 16
 D 4595: 32, 111
 Automated plane strain reinforcement cell, 1

B

Backfill, 163
 Bearing capacity, 64
 Biocides, 218

C

Chemical stability, 207
 Clay liners, 49
 Cohesive soils, 76
 Compaction procedure, 76
 Composite material, geogrid, 184
 Concrete block units, 32
 Confinement, 16, 49
 soil, lateral spreading, 64
 Creep, 284

D

Degradation, fiber, 207, 218, 228
 Dilatancy, soil, 138
 Direct shear test, 119, 138, 152
 Displacement, 195

E

Extensometer, 90

F

Factors-of-safety, 195
 partial, 163

G

Geocells, 64
 Geogrids
 damaged, 195
 degradation of, 228
 installation damage, 163
 modular block, 32
 pull-out testing, 76, 119,
 184, 195
 tensile modulus, 90
 Geonets, 49
 Glass transition temperature,
 207
 Grain size distribution, 76
 Granular soils, 76, 138
 Gravel, 119, 163

H

Hydraulic testing, 64
 Hydrolysis, 207, 228

I

Installation damage, 163, 195

L

Limit equilibrium, 152
 Liners, clay, 49
 Loading, 32, 184
 deformation properties, 16
 extension modulus, 49
 pull-out, 76
 transfer evaluation, 1

M

Microorganisms, effect on
 geosynthetics, 218
 Moisture content, soil, 76

N

Needle-punched geotextiles, 49
 Nonwoven geotextiles, 16
 needle-punched geotextiles,
 49

O

Oxidation, 228

P

Planar reinforcement, 1
 Plane strain test, 1
 Polyester, 111, 195, 207, 228
 Polyethylene terephthalate, 228
 Polymeric degradation, 207, 218,
 228
 Polymeric reinforcement, 163
 Polyolefins, 228
 Polypropylene, 90, 228
 Pull-out tests, 76, 119, 184, 195

R

Ribs, geosynthetic
 installation damage, 163
 single, 90
 Rubber membrane, 16

S

Sand-steel data, 1
 Shear failure, 64
 Shear lag analysis, 1
 Shear strength, 119, 138, 152
 Shear stress strain, 76
 Silt, 184
 Silty sand, 119

Single end break, 111

Single rib, 90

Slippage, 16

Soil friction angle, 152

Stability, fiber, 228

 biological, 218

 chemical, 207

Standards (See also ASTM
 standards)

 degradation, 218

 geocells, 64

Steel sheet inclusion, 1

Stiffness, 16

Strain rate, 184

Stress degradation, 207

Stress strain

 curves, 16

 shear, 76

T

Tensile properties

 D 61: 16

 D 1682: 16

 D 4595: 32, 111

 modulus, 90

 strain, 138

 strength, 49

 stress, 64

 measurement, 1

Triaxial test, 119

W

Wide width strip method

 D 4595: 32, 111

Wide width tension test, 49

Woven geotextiles, 16, 49

 polyester, 111