## **INDEX**

accuracy, 2, 15, 79–80 acceleration, 4, 85 atterberg limit tests, 16 alluvium, 117–18 asymptotic, 166

biomass, 24, 31–32

correlation, 1–2, 5, 79–80, 124–25 charged couple device, 81 cohesion, 19, 82, 137 cohesive soil, 31 crustal-scale tectonic, 96

electrical resistivity
tomography, 92, 112
embankment, 123, 160–61,
169
electrokinetic, 36–37, 38, 40,
42
electro-grouting, 36
energy-dispersive x-ray
spectroscopy, 38
earthfill dam, 61, 162, 164,
166–67

geotechnical physical model, 5 granitoid, 97 granodiorite, 97

hydraulic gradient similitude, 8 heterogeneous, 63 hysteresis, 70, 73–74 homogeneous, 26, 117, 151– 52, 159–60, 162 hydrogeological, 159

inorganic, 23 igneous rock, 97 isotropic, 161

joint rotational stiffness, 150

lattice, 80 laterite, 1–2, 11–14, 130–35

microcrystalline, 23 mafic metamorphic rocks, 97 matric suction, 51–52, 54–56, 63–64, 69, 72–73

numerical seepage model, 62

particle image velocimetry, 2, 79, 86 precision, 79–81 plethoral, 13 permeability, 23, 35–36, 52, 120, 133, 159 piezocone, 124–25, 27 peats, 35, 39 pozzolanic, 2–3, 40, 43, 131

refraction, 4 reinforce, 4, 31, 52

spline interpolation, 3, 80 standard proctor compaction test, 14, 18–19 shear strength, 35–36, 40, 51, 57, 72, 117–18, 123–27, 132, 138 seismic reflection method, 92 seepage, 56–57, 62, 91, 159– 70 scanning electron microscope, 38

trajectories, 9,10 tectonic stresses, 91, 96 topographic, 35

unconfined compressive strength, 15–16, 19–20, 25

velocity, 79, 85, 132, 169