

Subject Index

A

- Adsorption, 120-150, 391-408
- Analysis (*see also* Organic constituent groups, and Quality control)
 - aging, 204
 - atomic absorption spectroscopy (AA), 277
 - calculations, 259-260
 - electroanalytical, 276
 - inductively coupled plasma spectroscopy (ICP), 257-272, 276
 - interferences, 257-272
 - matrix, 257-272
 - neutron activation, 276-277
 - photon activation, 276-277
 - separation and extraction, 258-263, 277-292
 - X-ray and X-ray fluorescence (XRF), 263, 276
- Arsenic (*see also* Heavy metals), 391-408
- Attenuation (*see also* Adsorption), 391-408

B

- Batch leaching (*see also* Fixed wastes)
 - ASTM tests, 268-269, 367-374
 - basic considerations, 7-27, 268
 - contact conditions, 19
 - environment Canada procedures, 63
 - EPA extraction procedure (EP), 11-12, 28-44, 367-368
 - extractant ratio, 21

- extractant renewal, 19-21
- Foundrymen's test, 28-44
- French test, 11
- intrinsic properties, 63-78
- Japanese test, 11
- local ground water, 303
- method comparison, 7-44
- oily wastes, 268
- pH, 14-18, 32-33
- purposes, 268
- redox, 263
- serial extraction, 19-21
- site specific, 303
- variability, 385-387
- West German test, 10
- Biodegradation, 151-173, 319-333
- Biological sludge, 273-292
- Bioreclamation, 161-173
- Boiler ash, 295-301, 379-385
- Bromophenol, 308-316

C

- Cadmium (*see also* Heavy metals), 391-408
- Cations
 - exchange capacity (CEC), 218-219
 - mobility, 216-219
- Chemical plant waste, 257-272
- Chloride, 93-103, 220-221
- Closure, 203-205
- Co-disposal industrial and municipal wastes, 45-62
- Column leaching
 - anoxic, 55-61, 380
 - co-disposal, 45-62

comparison with batch, 384-388
 fly ash, 379-385
 liner migration, 208-225
 penetration theory, 221-224
 recirculation, 46-48
 simulated landfill, 45-62, 375-379
 variability, 385-387
 Corrosivity, 430-432

D

Data handling, 104-119
 Dichlorobenzene, 140-150
 Dichlorophenol, 140-150
 Diffusivity, 98-103, 221-224
 Dispersion, 221-224

E

Explosivity, 438-439

F

Field and large-scale studies (*see also* Sampling)
 co-disposal, 45-62
 foundry waste, 28-44
 liners, 93-103
 municipal wastes, 93-103
 Fixed wastes
 cement, 79-90, 295-307, 308-316
 chemical properties, 70
 fly ash, 295-307
 grout, 295-307
 hydrofracture grout, 295-307
 intrinsic properties, 63-77
 leaching batch, 68-77, 87-89, 303
 leaching column, 81-87
 limestone scrubber solids, 295-307
 metal wastes, 79-90
 microscopy, 308-316
 models, 71-76, 86-87
 morphology, 70
 organic effects, 308-316

particle size, 80-81
 paste, 80-81
 PCBs, 295-307
 pesticides, 295-307
 physical properties, 70, 308-316
 pickling liquor, 295-307
 Foundry wastes, 28-44
 Free liquid, 409-416

G

Gases, 344
 Geophysical surveys (*see also* Remote sensors), 243-253
 Geotechnical testing (*see also* Adsorption, Fixed wastes, Geophysical surveys, Sampling, liners)
 cation exchange, 218-219
 dynamic shear, 226-239
 effective stress, 94-95
 hydraulic conductivity, 234-242
 moisture, 343-352
 pH effects, 234-236
 pore water, 343-352
 shear modulus, 226-239
 soil dynamics, 226-239
 subsurface sensors, 250-253
 Ground water (*see also* Sampling and preservation and Field and large-scale studies)
 treatment, 151-173

H

Heavy metals (*see also* Analysis)
 analysis, 257-272
 attenuation and retardation, 50-62, 212-216
 sulfide precipitation, 54-61

I

Ignitability, 431
 Impoundment, 195-207, 343-366

Incineration (*see also* Incinerator ash)
 boilers, 180-191
 cement kiln, 181-191
 heat content, 265
 performance, 177-191
 test burns, 181
 volatile organic sampling train (VOST), 179-180

L

Laboratory wastes, 417-425
 Land application, 273-292
 Land treatment, 268-269
 Leachate migration, 208-225
 Leachate treatment, 45-62, 151-173
 Limestone slurry treatment sludge, 295-307
 Liners
 clay and soil, 93, 103, 208, 239
 flexible membrane, 195, 207
 Lysimeters (*see also* Column leaching), 28-30, 343-352, 387

M-N

Migration, 208-225
 Models
 biological treatment, 326-331
 diffusivity, 98-103
 leaching, 65-67, 72-74
 liner migration, 221-224
 migration, 98-103, 208-225
 Nitrogen, 289

O

Oily waste, 257-272
 Organic constituent groups (*see also* Analysis)
 RCRA Appendix VIII compounds, 338

Oxidation-reduction potential, 263-380

P

Paint filter test, 409-416
 Pentachlorophenol, 120-139, 295-307
 Pesticide waste, 295-307, 438-440
 Phenolics, 120-150, 295-307
 Phosphorous, 288-289
 Pickle liquor, 295-307
 Plant uptake, 273-292
 Polychlorinated biphenyls (PCBs), 295-307
 Precipitation, 212-216

Q-R

Quality control and quality assurance
 data base, 104-119
 Reactivity, 428-439
 Remote sensors, 243-253
 Resource Conservation and Recovery Act, 258, 269, 409-410

S

Safety, 354-356, 426-442
 Samples
 classification, 419
 disposal, 421-425
 treatment, 420-421
 Sampling
 basic considerations, 332-339
 design, 357-360
 ground water, 337-342
 impoundments, 353-366
 safety, 354-356
 soil gas, 344
 storage effects, 264, 341
 variability, 357-360

- wastes, 353-366
- wells, 341
- Simulated landfill (*see also* Column leaching), 45-62, 208-212, 377-379
- Soil (*see also* Analysis, Batch leaching, Sampling, Field and large-scale studies, and Geotechnical testing)
 - adsorption, 120-150, 391-408
 - pH, 120-139
- Steel mill wastes (*see also* Pickle liquor), 7-27
- Storage, 426-442
- Sulfur compounds, 265-269

T-W

- Tensiometer, 343-352
- Underground storage tanks, 343-352
- Waste management, 417-425