

INDEX

- activity
 - on-going, 116
 - Ahuna Mons, 34
- achondrites
 - basaltic, 82
- Ahuna Mons, 121
- albedo, 3
- ammonia, 139
- ammonium, 139
 - chloride, 140
- aqueous processes, 116
- asphaltite, 111
- asteroid belt
 - evolution, 229, 232
 - structure, 227
 - timeline, 228
- bodies
 - water-rich, 162
- brine reservoir, 155
- CAI condensation, 54, 61
- carbon, 121, 127
- carbonaceous chondrite, 89
- carbonate, 106
- Cerealia Facula, 112
- Cerealia Tholus, 114
- Ceres, 26, 34
 - crustal heterogeneity, 148
 - despinning, 192
 - dynamical histories, 242
 - internal evolution, 159
 - geologic map, 146
 - gravity, 184
 - gravity anomalies, 175
 - internal structure modeling, 184
 - mascons, 189
 - moment of inertia, 192
 - origin, 130
 - shape, 184
 - true polar wander, 192
- comets, 123
- crater
 - floor fractured, 151
 - Juling, 149
- dark material, 71
- density
 - Hill, 204
- dichotomy
 - carbonaceous, non-carbonaceous, 212
- Diogenite
 - excavation, 82
 - type B, 41
- domes
 - large, 152
- dust coagulation, 203
- Enceladus, 140
- Ernutet, 122
- Eucrites, 41
- facula, 107
- FC (Framing Camera), 121
- flows
 - type 1, 149
 - type 2, 149
 - type 3, 149
- GRaND, 159
- grand tack, 231
- HED, 26, 41
 - components, 81
- Howardites, 82
- hydrocarbons, 111
- hydrohalites, 113, 138
- IDPs (interplanetary dust particles), 3, 123
- impact melt, 77, 169, 256
- instability
 - streaming, 199
- interior structure, 159
- isotopic variability, 215
- Jupiter
 - barrier, 220
- Kerite, 111
- laccoliths, 77
- Lucy, 264
- magma ocean, 48
- mass wasting, 75
 - dry, 150
- meteorites, 123
 - Murchison, 124
- mounds
 - small, 154
- natrite, 125

266 *Index*

- Occator, 16, 107, 121, 148
Olivine
 endogenous, 85
 exogenous, 85
organic materials, 107, 111
organics, 125

phyllosilicates, 106
 Mg, 111
 NH₄, 106
pit crater chains, 70
pit chains, 150
pitted terrain, 73, 145
plagioclase, 88
planet migration, 230
pristine zone, 200
Psyche, 264

radiometric isotopic dating, 215
Rheasilvia, 68
 age, 251

SEP (solar electric propulsion), 26
serpentization, 112, 121

Toomre criterion, 203

Veneneia, 69
 age, 251
Vesta, 26, 30
 central core, 45
 collisions, 252
 composition, 53
 dynamical histories, 242
 gravity, 45
 moment of inertia, 178
 shape, 177
 troughs, 70
 volcanism, 67
VIR, 81, 105
V-type asteroids, 251

water ice, 107