

- MACD 307–8, 311, 327–31
 influence of bottom angle of texture pits 331–2
 influence of density of texture pits 332
 influence of texture height 331
- magnesium dopant 391
- Malaprabha Grameena Bank (India) 1112–13
- Manipal Finance Corp. Ltd. (India) 1113
- MARC 245
- market demand 1084
- market distribution by technologies 21
- market evolution 47
- market expansion 39–40
- market growth rates 50
- market share of monocrystalline and multicrystalline solar cells 256
- market volume 56
- markets 15–19
- Mars Pathfinder Sojourner Rover 432
- Mars solar arrays 440
- Mars solar electric propulsion (SEP) vehicle 428
- Martin Marietta point-focus Fresnel system 462–3
- Mataro Library, Barcelona, Spain 776
- matching component cells in multijunction designs 550
- matching DC/DC converter (MDC) 871
- Mathiessen's rule 79
- maximum achievable current density *see* MACD
- maximum power calculation 950
- maximum power point (MPP) 93–4, 866, 881–2, 900, 952–3
 deviations 883
- maximum power point tracking (MPPT) 871–3, 881, 894
- mean global daily irradiations 917
- mechanical stacks 404–5
- mechanical texturing 285–6
- median cracks 228
- MESSENGER Discovery mission 439
- metal-induced crystallization (MIC) 344–9
- metal-insulator-semiconductor (MIS) contacts 258
- metallization techniques 263–4
- metallurgical grade silicon 24, 157–8, 161–7, 176–7
 casting 166
 crushing 166
 economics 167
 furnace for production of 164
 refining 163–6
 upgrading purity 194–8
- metalorganic chemical vapor deposition (MOCVD) 360
 GaInP/GaAs/Ge solar cells 382
- Meteosat weather satellite 783
- Mexico, rural electrification 1064–5
- microcrystalline silicon solar cells 551–2
- microenterprise 1083
- micromorph devices 552–3
- microwave glow discharge deposition 525
- micro-X-ray 347
- mid-Earth orbits (MEO) 420
- Miller indices 65
- minority-carrier diffusion equation 82–3, 89
- minority-carrier diffusion length (MCDL) 307, 351
- minority-carrier lifetime 77
- minority-carrier recombination 185
- mobility edges 517
- modularity 56
- module aperture area 35
- module manufacturing, a-Si-based solar cells 553–8
- module price for silicon cell technology 985–90
- module temperature, BIPV 1034–5
- monitoring systems and interfaces 843, 874
- monochromatic cell 124–6
- monochromatic cell efficiency versus photon energy 125
- monocrystalline float zone (FZ-Si) material 260
- monocrystalline Si cells 1031–2
- monoenergetic membrane 144
- morphological defects 401
- MOS-FETs 866, 868
- multicrystalline silicon (mc-Si) 21, 26, 206
- multicrystalline solar cells 256, 283–7
- multicrystalline wafers 285
- multijunction designs, matching component cells in 550
- multijunction III-V cells 427–8
- multijunction solar cells 20, 38, 132–5, 510–11, 542–53
 advantages 542–4
I-*V* measurements 400–1
 measurement procedures 728–30
 principles and operation 362
 quantum efficiency measurements 549
- multilinear Lagrange invariant 118
- multi-wire sawing technique 224
- n*-type material 77, 83
- n*-type semiconductors 76
- n*-type side 25