
Index

A

- Abrasives
 - definition of, 385
 - forms of, 387
 - Knoop Hardness Numbers, 386t
 - Abutments
 - contraindications, 89
 - criteria for
 - crown-root ratio, 89–90
 - overview, 89
 - periodontal ligament area, 91–93
 - root configuration, 90–91
 - root surface areas, 91t, 91–93
 - definition of, 1
 - diagnostic casts of, 8
 - endodontically treated teeth, 195
 - pier, 95–96, 96f
 - secondary, criteria for selecting, 93
 - tilted molar, 97–100
 - tooth-supported fixed partial dentures
 - conventional, 88
 - resin-bonded, 88
 - Acid etching, 537
 - Adjustments, for gold restorations
 - contours, 397
 - esthetics, 397
 - margin finishing, 392–394
 - marginal adaptation, 392
 - occlusal
 - nonworking movement, 395, 396f
 - overcorrection, 394, 396f
 - protrusive interferences, 395, 396f
 - working movement, 395, 396f
 - proximal contacts, 391–392
 - seating completeness, 392
 - Agar. *See* Reversible hydrocolloid.
 - Air brush, 398f
 - All-ceramic crowns
 - alumina-reinforced, 436
 - attributes, 79t
 - casting, 435
 - cementation
 - armamentarium, 413
 - cements
 - removal of excess, 415
 - selection of, 414
 - shade, 414–415
 - finishing of rough surfaces, 414, 451
 - proximal contacts, 414, 451
 - stone smoothing, 451
 - contraindications for, 151–152
 - description of, 78
 - Dicor system, 435
 - fabrication
 - coping, 439, 440f
 - die preparation, 437–438
 - finish line, 437
 - porcelain addition, 441
 - sealants, 438
 - shade selection, 439
 - sintering, 439
 - slip material, 438, 439f
 - tooth reduction, 437
 - fracture susceptibility of, 151
 - historical origins, 434
 - illustration of, 80f
 - indications, 139
 - longevity of, 80t, 80–81, 82t
 - occlusal reduction, 126
 - reinforcement methods
 - coping, 434
 - crack bridging, 434
 - crack-tip interactions, 434
 - crack-tip shielding, 434
 - secondary crystals, 435
 - tooth preparations
 - anterior vs posterior teeth, 437f
 - armamentarium, 152
 - depth-orientation grooves, 152, 153f
 - incisal reduction, 152, 153f
 - labial reductions, 152, 153f
 - lingual reductions, 152, 153f
 - overview, 153f
 - radial shoulder, 152, 153f
 - shoulders, 151
- All-metal hygienic pontic, fabrication
 - casting, 500, 502
 - die trimming, 497
 - excess wax removal, 498, 499f
 - investing, 500, 502
 - plaster matrix, 500, 501f
 - wax coping, 498
- Alloys
 - ADA classification, 366
 - base metal
 - advantages, 365–366
 - beryllium content, 366
 - casting of, 381–382
 - fluoride use, 509
 - gold alloys and, differences, 366
 - melting temperatures, 366
 - for metal-ceramic restorations, 456–457
 - nickel-chromium, 366
 - soldering, 530
 - casting of. *See* Casting.
 - factors that affect choice of, 367
 - gold
 - base metal alloys and, differences, 366
 - investing of, 367

- types II and III, casting of
 - armamentarium, 373
 - burnout, 373
 - cleaning the cast, 375–376
 - common defects, 377f
 - pickling, 375, 377f
 - procedure, 373–375
 - gold-palladium
 - casting
 - armamentarium, 381
 - procedure, 381
 - for metal-ceramic restorations, 457
 - soldering
 - burnout, 528–529
 - casting, 528–529
 - indexing, 527
 - investing, 527–528
 - preparatory procedures, 526
 - recommended uses, 366
 - Aluminous porcelain jacket crown
 - fracture resistance, 434
 - layers of, 434f
 - Aluminum oxide
 - abrasive use of, 385–386
 - Alveolar bone loss, root resection and, 214
 - Amalgam
 - for prefabricated dowels, 197
 - restorations
 - complex
 - attributes, 79t
 - description of, 76
 - illustration of, 76f
 - longevity of, 80t, 80–81, 82t
 - cores for, 185
 - indications for, 73–74, 171
 - longevity of, 80t, 80–81, 82t
 - plaque control, 73
 - simple
 - attributes, 79t
 - description of, 76
 - illustration of, 76f
 - longevity of, 80t, 80–81, 82t
 - strength of, 197
 - Andrews bridge system, 493
 - Angle of convergence, 119
 - Angle of divergence, 119
 - Anterior guidance
 - Denar facebow and articulator, 60–61, 62f
 - Hanau facebow and articulator
 - custom settings, 67, 68f–70f
 - mechanical, 70, 71f
 - Whip Mix facebow and articulator, 54, 54f–55f
 - Anterior teeth
 - dowel cores, for endodontically treated teeth
 - illustration of, 194f
 - length determinations, 195f
 - rationale for, 194
 - retentive properties, 194–195
 - guidance of mandible, 54, 60, 67, 70
 - metal-ceramic crowns
 - armamentarium, 142
 - axial reduction, 145, 146f
 - depth-orientation grooves, 144, 145f
 - finishing lines, 146
 - incisal reduction, 144, 145f
 - labial reduction, 144, 145f
 - lingual reduction, 145
 - occlusal reduction, 142, 143f
 - overview, 148f
 - proximal reduction, 145
 - putty molds, 142, 143f
 - radial shoulder, 146, 148f
 - shoulders, 146
 - three-quarter crown, tooth
 - preparations for
 - armamentarium, 162
 - axial reduction, 162, 163f
 - bevels, 162, 163f
 - flares, 162, 163f
 - grooves, 162, 163f
 - incisal reduction, 162, 163f
 - lingual reduction, 162, 163f
 - occlusal reduction, 162
 - offset, 162, 163f
 - overview, 164f
 - path of insertion, 161–162
 - Ante's law, 92
 - Antiflux, 509
 - Antirotational devices, for die in working casts
 - curved dowel pin, 318–320
 - Di-Lok tray, 330–333
 - Pindex system, 321
 - straight dowel pin, 315–318
 - Antisialogogues, for fluid control, 258–260
 - Appearance zone
 - definition of, 419
 - incisors
 - incisal lines, 423
 - interproximal contacts, 423
 - midline, 421
 - pontics, 487–488
 - smile line, 419
 - Arcon articulators
 - advantages of, 28
 - description of, 27
 - Articular disc, description of, 11
 - Articulators
 - arcon, 27–28
 - border movements duplicated by, 25
 - condylar movements, 30, 32f
 - definition of, 25
 - Denar, 56
 - fully adjustable, 26
 - Hanau, 63–71
 - nonadjustable, 25, 26f
 - nonarcon, 27–28
 - principles of, 25, 26f
 - semiadjustable, 25
 - tooth–transverse horizontal axis relationship, 29–30
 - Whip Mix, 47
 - Asbestos, 370
 - Aspiration of restorations, 412
 - Axial contours
 - full veneer crown, 340f
 - wax patterns
 - bulges, 339, 340f
 - emergence profile, 338–340
 - faciolingual, 337–338
 - proximal, 337
 - Axis, hinge
 - arbitrary location of, 30
 - and articulator hinge axis, effect of dissimilarities, 25, 26f–27f
 - trial and error method to determine, 29
- ## B
- Banthine, 259
 - Base, 187, 188f
 - Base metal alloys
 - advantages, 365–366
 - beryllium content, 366
 - fluoride use, 509
 - gold alloys and, differences, 366
 - melting temperatures, 366
 - for metal-ceramic restorations, 456–457
 - nickel-chromium, 366
 - soldering, 530
 - Base metal restorations
 - adjustments, 400
 - finishing, preliminary
 - armamentarium, 399
 - procedure, 399–400
 - polishing, 400

try-in, 400
 Beilby layer, 385
 Bennett angle, 14, 15f
 Beryllium
 carcinogenic properties of, 366, 457
 description of, 366
 Bevels
 contraindications for, 129–130
 functional cusp
 description of, 127
 for full veneer crown, 140
 metal-ceramic crown, 149, 150f
 three-quarter partial veneer crowns, 156, 157f
 indications for, 128–129
 mesio-occluso-distal onlays, 175–176, 176f–177f
 proximo-occlusal inlays, 173, 173f
 three-quarter crown, 162, 163f
 Bifurcational ridge, intermediate, 215
 Bilateral balanced occlusion, 19, 355
 Binangle chisel, 146, 147f
 Biologic width, 191
 Bis-acryl composite
 characteristics of, 227t
 overimpression-fabricated crowns
 description of, 243
 procedure for creating, 243–246
 Black triangles, 493
 Blow holes, soldering repair of, 519
 Bonding, 441
 Border movements, 25
 Box form
 for extensively damaged teeth, 181–182, 183f
 substitution of, 123
 Brazing, 509
 Bridge. *See* Fixed partial denture.
 Brightness. *See* Value.
 Bruxism, occlusion and, 16–17
 Burnout
 definition of, 365
 gold alloys, types II and III, 373
 high-temperature, 367
 low-temperature, 367
 Burs, 134t–135t. *See also specific procedure, armamentarium.*
 Busch Silent, 387

C

Canines
 in appearance zone, 422
 fixed partial dentures for
 configurations, one tooth, 109
 description of, 100
 resin-bonded, 543f
 incisal lines, 423f
 Carat, 509
 Caries
 resin-bonded fixed partial denture and, 541
 restoration of, glass ionomer use, 74, 75f
 Casting
 alloys, 365–366
 definition of, 365
 dowel-core patterns, 376, 378
 gold alloys, types II and III
 armamentarium, 373
 burnout, 373
 procedure, 373–375
 gold-palladium alloys
 armamentarium, 381
 procedure, 381
 induction, 366
 inlay patterns, 376, 378
 voids, soldering repair of
 armamentarium, 520
 contraindications, 519
 indications for, 519
 Casting rings, for gypsum-bonded investments, 370
 Casting temperature, 378
 Casts, working
 mounting of
 Denar facebow and articulator
 mandibular, 58–60
 maxillary, 56–58, 59f
 Hanau facebow and articulator
 mandible, 66–67, 67f
 maxillary, 64–65, 66f
 Whip Mix facebow and articulator
 mandibular, 50–52
 maxillary, 49–50
 with removable die
 advantages over separate die, 314
 antirotational devices, 314, 315f
 methods of orienting die in cast
 curved dowel pin, 318–320
 Di-Lok tray, 330–333
 Pindex system, 321–329
 straight dowel pin, 315–318
 requirements, 314
 requirements for, 309
 with separate die
 armamentarium, 309
 description of, 309
 die preparation, 311–314
 difficulties associated with, 309
 finish lines, 312, 313f
 hardening agents, 313
 impression pouring, 309–311
 Catapres, 260
 Cellulose liners, for casting rings, 370
 Cementation
 all-ceramic restorations
 armamentarium, 413
 cements
 removal of excess, 415
 selection of, 414
 shade, 414–415
 finishing of rough surfaces, 414
 proximal contacts, 414
 ceramic crowns, 452
 description of, 405
 dowel cores, 412–413
 fixed partial dentures, 415
 gold inlays, 412
 metal-ceramic crowns, 415
 with polycarboxylate cement, 409–410
 with resin cements, 410–412
 vent holes for cement escape, 406f
 with zinc phosphate cement
 cement preparation, 407
 mandibular isolation, 406, 407f
 pulp protection, 406–407
 removal of excess cement, 409
 restoration seating, 408f, 409
 vital tooth considerations, 406
 Cemented restorations
 external surface
 finishing of, 385
 plaque accumulation on, 385, 386f
 indications for, 73–74
 internal surface, 385
 plaque control, 73
 provisional
 armamentarium, 233
 procedure, 233–234
 Cements