

Index

Note: page numbers in *italics* refer to figures

- abutments, implant 116, 117
- abutment teeth
 - destruction 13, 83
 - preparation 82, 83
 - provisional restorations 85
 - resin-bonded FDPs 77
- acid etch technique 99
- addition silicone *see* polyvinyl siloxane
- additive diagnostics 31
- adhesive, tray 89
- adhesive failure 94, 95
- adhesive resins (AR) 96, 97, 99
 - luting techniques 100, 101
- aesthetic dentistry
 - diagnostic wax-ups 31, 41
 - implants 109
 - porcelain laminate veneers 81
 - treatment planning 33
 - see also* anterior dental aesthetics
- air abrasion 72, 73, 101
- alginates 87
- all-ceramic crowns 67
 - cements 96, 97
 - tooth preparation 83
- all-ceramic fixed partial dentures (FPD) 13
- allergies 15
- alumina-based ceramics 70, 71
 - cements 96, 97
 - full coverage crowns 67
 - posts 51
- alveolar bone crest (ABC) 45
- alveolar bone loss/remodelling 103, 107
- alveolar compensation 37, 43, 59
- alveolar mucosa 44, 45
- alveolar ridge
 - anatomy, 3-D assessment 109
 - defects 110, 111
- amalgam 64, 65
 - core build-up 52, 53
 - intracoronal restorations 64, 65
- American Society of Anesthesiologists (ASA)
 - scale 14, 15
- anaphylactic reactions 15
- Angle's classification 16, 17
- anterior dental aesthetics 54–61
 - basic principles 54, 55
 - bleaching 60, 61
 - diagnostic wax-ups 31, 41
 - guidelines 58, 59
 - impression taking 91
 - porcelain laminate veneers (PLV) 81
 - theories 56, 57
 - treatment planning 58, 59
 - see also* aesthetic dentistry
- anterior deprogrammer 37
- anterior guidance 36, 37, 41
- articulation paper 38, 39, 41
- articulator parameters 29, 39
- articulator-related registration 29, 39
- articulators, dental 29, 39
 - fully adjustable 39
 - laboratory procedures 40, 41
 - mechanical 28, 29
 - semi-adjustable 28, 31, 38, 39
 - virtual 28, 29
- artificial teeth 12, 13
- axial forces 36
- axial taper 82, 83, 97
- bacteria 49, 73
- barrier membranes 111
- base metal alloys 69
- beauty 57
- bilateral negative space 55
- bioactive restorative materials 63, 65
- biofilm 73
- biologic space 45
- biologic width (BW) 45
 - implants 109
 - impression taking and 90, 91
 - methods of determining 44, 45
 - variations 44, 45
 - violation 46, 47
- bis-acryl provisionals 84, 85
- bite raising appliance 42, 43
- bitewing radiographs 20, 21, 22, 23
- Black's cavity classification 10, 11, 63
- black triangles 46, 47, 54, 55
- bleaching 60, 61, 73
- bleeding tendency 15
- bone 45
 - expansion, split-ridge technique 110, 111
 - grafting 47, 110, 111
 - loss, after tooth extraction 103, 107
 - quality, assessment 109
 - regenerative therapies 46, 47
 - sounding 44, 45
- Brånemark, P-I. 105
- bridges *see* fixed partial dentures (FPD)
- Broadrick flag 41
- bruxism 28, 29, 43, 67
- buccal corridor 55
- burning mouth syndrome (BMS) 43
- burs, dental 74, 75
- CAD/CAM *see* computer-aided design and manufacture
- cameras, digital 26, 27
- cancer 19
- canine guidance 28, 37
- carbamide peroxide 60, 61
- cardiovascular disease 15
- caries 21, 73
 - cavitated 62, 63, 72, 73
 - diagnosis 20, 21
 - hard lesions 34, 35
 - infiltration concept 72, 73
 - micro- and minimally invasive treatment 72, 73
 - non-cavitated 62, 63, 72, 73
 - pulpal disease 49
 - recurrent 63
 - review (monitor) 34, 35
 - secondary 63
 - soft dentine lesions 34, 35
- Carisolv® 72, 73
- cast gold
 - core build-up 52, 53
 - implant abutments 116, 117
 - inlay preparation 79
- cast metal alloys 68, 69
 - core build-up 53
 - FPDs 13, 76, 77
 - luting agents 96, 97
 - posts 50, 51
- casts, plaster 30, 31
 - laboratory procedures 40, 41
 - occlusal analysis 28, 29, 31, 38, 39
- cavitated carious lesions 62, 63, 72, 73
- cavity
 - Black's classification 10, 11, 63
 - configurations, inlays and onlays 78, 79
 - design 11, 79
 - modification, core build-up 53
 - size, indirect restorations 66, 67, 79
- CCD (charge-coupled device) sensors 22, 23, 27
- cementation 94–101
 - mechanisms 94, 95, 96, 97
 - posts 51, 96, 101
 - procedure 100, 101
 - resin-bonded FDPs 77
- cemento-enamel junction (CEJ) 44, 45
- cement–restoration interface 94, 95
- cements *see* luting agents
- cement–tooth interface 94, 95
- centric occlusion (CO) 36, 37
 - analysis 28, 29, 39
 - occlusal records 38, 39
- centric relation (CR) 36, 37
 - analysis 29, 39
 - occlusal records 38, 39
- ceramics 71
 - all-ceramic FPDs 13
 - blocks (ingots) 71, 79
 - cementing 97, 101
 - core build-up 52, 53
 - full coverage crowns 67
 - implant abutments 116, 117
 - posts 51
 - strength and hardness 70, 71
- charting
 - dental 16, 17
 - periodontal 16, 17
- chrome-cobalt reinforced dentures 103
- clear aligners 35
- clinical erudition 32, 33

- CMOS (complementary metal oxide semiconductor) sensors 23, 27
- cohesive failure 94, 95
- colour temperature 26, 27
- combination prostheses 11, 81
- compliance, patient 43, 103
- compobonds 65
- compomers 65
- composites, resin-based 64, 65
 - core build-up 52, 53
 - direct restorations 64, 65
 - flowable 52, 53, 65
 - indirect restorations 68, 69
 - polyacid-modified 65
 - post cementation 51
 - provisional restorations 84, 85
- computed tomography (CT) 24, 25
 - cone beam (CBCT) *see* cone beam computed tomography
 - conventional (cCT) 24, 25
 - tuned aperture (TACT) 21
- computer-aided design and manufacture (CAD/CAM) technology 92, 93
 - 3-D virtual articulator 29
 - blocks (ingots) 71, 79
 - digital impressions 87, 93
 - digital study models 31
 - implant abutments 116, 117
 - indirect restorations 67, 71, 92
 - inlays and onlays 79
 - partial denture frameworks 103
- cone beam computed tomography (CBCT) 23, 24, 25
 - implant assessment 105
 - soft tissue 45
- connective tissue 45
 - around implants 109
 - attachment (CTA) 44, 45
 - grafting (CTG) 110, 111
- contact points 47
- contacts, opposing teeth
 - adjustment 41, 42, 43
 - assessment 31, 39
 - initial 37, 38, 39
- conventional resin (CR) cements 96, 97
 - luting technique 100, 101
- convergence angle 82, 83, 97
- cooling 74, 75
- core build-up 52, 53
- coronal support 52, 53
- cosmetic treatment, elective 33, 59, 81
- costs, dental implants 107
- cracked tooth syndrome 66, 67
- crown lengthening 47, 91
- crowns 10, 11
 - cementing techniques 101
 - decision-making 67
 - full coverage *see* full-coverage crowns
 - implant-supported 67, 83, 106, 119
 - materials 67, 69
 - monoblock abutment 117
 - partial coverage 11, 67
 - preformed provisional 85
 - replacement 66, 67
- curve of Monson 29, 37, 41
- curve of Spee 36, 37
 - analysis 28, 29
 - Broadrick flag technique 41
 - diagnostic wax-ups 31
- curve of Wilson 36, 37
 - analysis 28, 29
 - Broadrick flag technique 41
 - diagnostic wax-ups 31
- cusps
 - discoloured 66, 67
 - fractured 67
 - onlay preparation 79
 - supporting 39
 - unsupported 67
- cutting efficiency (CE) 75
- Dahl orthodontic appliance 37, 42, 43
- decision-making 34, 35
- Denar articulator 41
- dental charting 16, 17
- dental compound 87
- dental history 17
- dentine
 - bonding mechanisms 98, 99
 - effects of bleaching 61
 - immediate sealing 74, 75, 81
 - luting techniques 100, 101
 - modulus of elasticity 68, 69
 - secondary 49, 75
- dentine bonding agents (DBA) 98, 99
 - application techniques 98, 100, 101
 - bonding mechanisms 97, 98, 99
 - immediate dentine sealing 75, 81
 - resin cements with 97
 - self-etching (SE) 97, 98, 99, 101
 - total etching (TE) 97, 98, 99, 101
- dentofacial composition, aesthetic analysis 54, 55
- dentogingival apparatus 44, 45
- diabetes mellitus 15
- DIAGNOdent 21
- diagnostics 14–31
- diagnostic wax-ups 30, 31
 - anterior aesthetics 41
 - implants 108, 109
 - porcelain laminate veneers 81
 - provisionals based on 85
 - virtual 30, 31
- diamond burs 73, 75
- diamond grit particle size 75
- diamond tips, oscillating 72, 73
- digital dental photography 26, 27
- digital dental radiography 22, 23
- digital impressions 86, 87, 93
- digital scans, occlusal analysis 29
- digital single-lens reflex (DSLR) camera 27
- digital study models 30, 31
- direct restorations 11
 - cavitated carious lesions 63
 - choice of materials 64, 65
- direct-write assembly 92, 93
- disinfecting agents, pulp 49
- distraction osteogenesis 111
- double cord retraction technique 90, 91
- dressings, palliative 65
- drug-related complications 15
- drugs, medical emergency 14
- dyes, caries detection 21
- dynamic modal testing 105
- dynesthetic theory 57
- edentulism 103, 107
 - rehabilitation 12, 13
- edentulous ridges
 - implants 106, 107
 - impression materials 86, 87
 - removable full dentures 103
- Egyptian triangle 57
- Ekstrand method 21
- elastomers 87
- electrical conductance measurements (ECM) 21
- enamel
 - bonding mechanisms 98, 99
 - effects of bleaching 61
 - luting techniques 100, 101
 - microabrasion 73, 81
 - modulus of elasticity 68, 69
 - porosity 21
 - remineralisation 61, 63, 73
- endocrowns 67, 83
- endodontically treated teeth *see* non-vital teeth
- endodontics 48–53
 - controversies 49
 - coronal support 52, 53
 - failure of therapy 49
 - intraradicular support 50, 51
 - surgical 49
 - technological adjuncts 48, 49
- epilepsy 15
- epithelial attachment (EA) 44, 45
- equigingival margins 82, 83
- erythroplakia 19
- ethics 33
- European Medical Risk Related History (EMRRH) 14, 15
- evidence-based treatment 32, 33
- Expasyl 90, 91
- experience, clinical 33
- extracoronar restorations 11, 66, 67
 - indirect 11, 67
 - provisionals 85
- extraction, tooth
 - after failed root canal therapy 49
 - implant insertion after 113
 - sequelae 103, 107
 - socket preservation after 110, 111
- extra-oral examination 16, 17
- extra-oral photography 16, 26, 27
- facebow transfer 38, 39
 - laboratory procedure 40, 41
 - occlusal analysis 28, 29
- facial assessment, extra-oral 16, 17, 54, 55
- family medical history 15
- feather-edge margins 81, 83
- feldspathic ceramics 70, 71
- ferrule effect 11, 51, 53

- fiberoptic illumination 21
 fibre posts 50, 51
 fibre-reinforced composite (FRC) fixed partial dentures (FPD) 13, 76, 77
 cements 96, 97
 luting techniques 101
 financial constraints 33, 107
 fixed orthodontic appliances 35
 cementing 96, 101
 fixed partial dentures (FPD) 11, 12, 13
 cementing 96, 97, 101
 implants for replacing 107
 implant supported 13, 83, 106, 119
 indications 67
 materials 69
 provisionals 85
 resin-bonded 76, 77
 tooth preparation 82, 83
 fixed prostheses 12, 13
 impression materials 86, 87
 impressions 89
 Florida electronic probe 20, 21
 fluorescence, caries detection 20, 21
 fluoride 73
 fluorosis 61, 73
 FPDs *see* fixed partial dentures
 fractures
 restoration materials 67, 71
 susceptibility, non-vital teeth 75
 tooth 49, 66, 67
 free gingival margin (FGM) 44, 45
 full-coverage crowns 11, 66, 67
 cementing 96, 101
 implant-supported 67, 83
 impressions 86
 materials 67, 69
 provisionals 84, 85
 tooth preparation 82, 83
 full dentures 12, 13
 impression materials 86, 87
 see also removable full dentures (RFD)
- generative rapid prototyping 93
 geometric cavity design 11, 79
 geometric theories, anterior dental aesthetics 56, 57, 59
 gingiva 45
 anterior aesthetics 54, 55
 around implants 109
 asymmetrical zeniths 16, 47
 attached 44, 45
 embrasures 55
 exposure 54, 55, 59
 grafting 47, 111
 iatrogenic trauma 75
 papilla fill 46, 47, 55, 109
 gingival aesthetic line (GAL) 54, 55
 gingival architecture 55
 gingival crevice 44, 45
 gingival hyperplasia 91
 gingival margin, free (FGM) 44, 45
 gingival protection
 bleaching 61
 tooth preparation 74, 75, 80, 81
 gingival recession 46, 47, 75
 gingival retraction
 impressions 90, 91
 tooth preparation 74, 75
 giomer 65
 glass ceramics 71
 glass ionomers (GI)
 cement 94, 95
 core build-up 52, 53
 direct restorations 64, 65
 post cementation 51
 resin-modified *see* resin-modified glass ionomers (RMGI)
 gold alloys 69
 see also cast gold
 golden coefficients 57
 golden number (Φ) 57
 golden percentage 56, 57
 golden proportion (GP) 56, 57
 Griffith flaws 71
 group function 28, 36, 37
 guidance 36, 37
 guided bone regeneration (GBR) 46, 47, 111
 guided tissue regeneration (GTR) 111
 gutta-percha, removal 51
- haemostatic agents 91
 hard tissues, dental
 tooth preparation 74, 75
 see also bone; dentine; enamel
 health, function and aesthetic (HFA) triad 33, 47, 85
 hemisected teeth 67
 hinge axis position 37, 41
 history taking 14, 15
 hybrid layer 98, 99
 hydrochloric acid (HCl) 72, 73
 hydrocolloids, irreversible 87
 hydrofluoric acid (HF) 97, 100, 101
 hydrogen peroxide 61
- illumination 18, 19, 21
 image capture 27
 image manipulation 22, 23, 25
 implant(s) 13, 104–19
 abutments 116, 117
 augmentation and site preparation 110, 111
 clinical assessment 104, 105
 configurations 114, 115
 contraindications 106, 107
 immediate loading 112, 113
 indications 49, 106, 107
 materials 114, 115, 116, 117
 osseointegration 104, 105
 periodontal aspects 45, 47, 109, 111
 preoperative assessment 13, 108, 109
 rationale 12, 13, 106, 107
 restorative options 118, 119
 surgical techniques 112, 113
 treatment planning 108, 109
 types 114, 115
 implant–epithelium junction 109
 implant-retained overdentures (IRO) 118, 119
 implant-stabilised removable dentures 102, 103, 119
 implant-supported crowns 67, 83, 106, 119
 implant-supported fixed partial dentures (FPD) 13, 83, 106, 119
 implant-supported prostheses 106, 119
 impression materials 86, 87
 impressions 86–91
 digital (virtual) 86, 87, 93
 materials 39, 86, 87, 89
 occlusal analysis 38, 39
 pouring casts from 41
 soft tissue management 90, 91
 techniques 88, 89
 impulse testing 105
 incisal embrasures 54, 55
 incisal guidance table, custom 41
 incisal wrap 80, 81
 incisors
 aesthetic analysis 54, 55
 anterior guidance 36, 37
 post placement 51
 indirect restorations/prostheses 11
 CAD/CAM technology 67, 71, 92
 cavitated carious lesions 63
 decision-making 66, 67
 extracoronaral 11, 66, 67
 impressions 87
 intracoronaral 11, 65
 materials 67, 68–71
 provisionals 84, 85
 survival rates 66, 67
 infectious diseases 15
 ingots, machinable ceramic 71, 79
 initial complaint 17
 initial consultation 16, 17
 initial tooth contacts 37, 38, 39
 inlays 10, 11, 79
 cementing 96, 97, 101
 extracoronaral 67
 impressions 86
 intracoronaral 65
 materials 69
 provisionals 84, 85
 tooth preparation 77, 78
 intaglio surface, pre-treatment 100, 101
 interferences 36, 37
 interim restorations *see* provisional restorations
 International Caries Detection and Assessment System (ICDAS) 21
 interpupillary line 39, 41, 54, 55
 intracoronaral bleaching 60, 61
 intracoronaral restorations 11, 62–5, 67
 direct 65
 indirect 11, 65
 provisionals 85
 restoration materials 64, 65
 intra-oral examination 17
 intra-oral photography 26, 27
 intraradicular support 50, 51, 75
 irrigation 74, 75

- Jonker Probe 21
- knife-edge margins 82, 83
- knowledge 33
- laboratory, dental
- CAD/CAM technology 92, 93
 - fabrication of provisionals 31, 85
 - implant-supported prostheses 119
 - occlusal analysis 40, 41
- LARS factor 54, 55
- lasers, caries excavation 72, 73
- lateral cephalometric radiographs 22, 23
- lateral excursions 29, 37, 40, 41
- leukoplakia 18, 19
- light-activated bleaching 60, 61
- lip length 54, 55
- Lombardi, RE 56, 57
- loupes, dental 18, 19
- luting 95
- techniques 100, 101
- luting agents 94–7, 101
- choice 97
 - contemporary 96, 97
 - conventional 94, 95
 - core build-up 53
 - definitive restorations 96, 97
 - luting mechanisms 94, 95, 96, 97
 - resin-bonded FDPs 77
- magnification 19
- mandibular excursions 29, 37, 39, 40, 41
- MAP (medical, anatomy, prognosis) assessment 13, 109
- Maryland bridge 13, 77
- cementing 96, 97, 101
- maxillary anterior six teeth 55
- medical complications 14, 15
- medical history, personal 15
- Medical Risk Related History (MRRH) 15
- mercury 65
- metals
- denture frameworks 102, 103
 - impression trays 89
 - posts 50, 51
 - provisional restorations 84, 85
 - see also* cast metal alloys
- Michigan-O manual perio probe 20, 21
- Michigan splint 42, 43
- microabrasion 72, 73, 81
- micro-invasive tooth preparation techniques 72, 73
- mini-implants 13, 115, 119
- minimally invasive approach 72, 73
- anterior dental aesthetics 59
 - intracoronal restoration 63
 - resin-bonded fixed partial dentures 77
- missing teeth, rehabilitation 12, 13
- modulus of elasticity (MOE) 68, 69, 97
- moisture control, taking impressions 89
- morphopsychological concept 57
- mucogingival junction 44, 45
- mucositis, peri-implantitis 47, 113
- mutual protection 37
- natural proportion 56, 57
- natural teeth
- destructive preparations 13, 82, 83
 - rehabilitation 10, 11
- natural tooth substrate
- luting techniques 101
 - preservation 11, 75, 79, 81
- necrosis, pulpal 49
- neuromuscular feedback 43
- neurovascular bundles, repositioning 111
- noble cast metal alloys 69
- non-axial forces 36, 37
- non-cavitated carious lesions 62, 63, 72, 73
- non-vital teeth
- bleaching 60, 61
 - core build-up 52, 53
 - indirect restorations 67
 - preparation 75
- occlusal adjustment (OA) 41, 43
- occlusal stabilisation by 42, 43
 - trial selective 41
- occlusal analysis 28, 29, 31, 38, 39
- laboratory procedures 40, 41
 - virtual 31
- occlusal records 29, 38, 39
- occlusal splints 41, 42, 43
- occlusal vertical dimension (OVD) 28, 29
- establishing a new 37, 42, 43
 - mounting study casts 39, 41
 - onlays for raising 79
 - porcelain laminate veneers for raising 81
 - trial adjustment 41
- occlusion 36–43
- clinical procedures 38, 39
 - data registration 29, 40
 - dynamic 29, 31
 - examination 17, 38, 39
 - laboratory procedures 40, 41
 - static 29, 31
 - terminology and definitions 36, 37
 - trauma from 28, 29, 47
- onlays 11, 66, 67, 79
- cementing 96, 97, 101
 - impressions 86
 - materials 69
 - tooth preparation 77, 78
- operating microscope 18, 19
- oral carcinoma 16, 19
- oral precancer 18, 19
- Ormocer® technology 65
- orthodontic appliances 35
- fixed 35, 96, 101
 - removable 35
- orthodontic extrusion 111
- orthodontics 34, 35
- osseointegration 104, 105
- osteoconduction 104, 105
- osteoinduction 104, 105
- osteoperception 105
- OVD *see* occlusal vertical dimension
- overdentures 12, 13
- implant-retained (IRO) 118, 119
- palatal veneers 81
- palladium allergy 69
- panoramic radiographs 23, 24
- papilla fill, gingival 46, 47, 55, 109
- patients
- compliance 43, 103
 - needs and wants 32, 33, 59, 109
- PEMA (polyethyl methacrylate) provisionals 84, 85
- perception theories, aesthetic dentistry 56, 57
- percussion 49, 105
- periapical radiographs 22, 23, 24
- peri-implant biotypes 109
- peri-implantitis 46, 47, 113
- periodontal bioforms 46, 47
- aesthetics 54, 55
 - implant therapy 109
- periodontal biotypes 46, 47
- aesthetics 55
 - gingival retraction and 91
 - implant therapy 109
 - tooth preparation and 75, 83
- periodontal charting 16, 17
- periodontal disease
- after tooth preparation 75
 - diagnosis 20, 21
 - treatment 47
- periodontal growth 111
- periodontal health 44–7, 90, 91
- periodontal plastic surgery (PPS) 46, 47, 111
- periodontal probes 20, 21
- Periotest 105
- periradicular lesions 49
- phobias, dental 33
- phonetics 55
- phosphoric acid 98, 99, 100
- photography, dental 26, 27
- pins, core retention 53
- plaster casts *see* casts, plaster
- platelet-rich plasma (PRP) 111
- PMMA (polymethyl methacrylate) provisionals 84, 85
- polyacid-modified composite resins 65
- polycarbonate provisionals 84, 85
- polycarboxylate (PC) cement 94, 95, 96
- polyether impression materials 86, 87
- polyvinyl siloxane (PVS) (addition silicone) 39, 86, 87, 89
- porcelain-fused to metal (PFM) restorations 70, 71
- cements 96, 97
- porcelain laminate veneers (PLV) 10, 80, 81
- cementation 96, 97, 101
 - indications 11, 80, 81
 - provisional restorations 85
 - survival rates 66, 67
 - tooth preparation 80, 81
- post/core complex 11, 53
- posts, intraradicular 50, 51, 75
- cementation 51, 96, 101
- precancerous lesions, oral 18, 19
- precision attachments 13, 83
- preparation, tooth *see* tooth preparation
- pressure, during tooth preparation 75

- Preston, JD, natural proportion 56, 57
 probes, periodontal 20, 21
 prosthetically driven treatment planning (PDTP) 108, 109, 111
 prototyping technologies 31, 92, 93
 protrusive excursions 28, 29, 37, 40, 41
 provisional restorations 84–5
 fabrication 31, 84, 85
 materials 84, 85
 resin-bonded fixed partial dentures 76, 77
 psychological theories, aesthetic dentistry 56, 57, 59
 pulp, dental 48, 49
 chamber size 74, 75
 vitality tests 19
 pulpal diseases 48, 49, 75
 pulpectomy 49
 pulpitis 49
 pulpotomy 48, 49
 pulse oximetry 19
 putty-wash impression technique 89
- quantitative laser fluorescence (QLF) 20, 21
- radiation safety and precautions 22, 23
 radiography, dental 22, 23
 implant assessment 104, 105
 radio-sterio-photogrammetry (RSA) 105
 Radlinsky, S, golden coefficients 57
 recurring esthetic dimension (RED) 56, 57
 regenerative therapies 46, 47
 rehabilitation
 missing teeth 12, 13
 natural teeth 10, 11
 removable full dentures (RFD) 12, 13, 102, 103
 impression materials 86, 87
 removable partial dentures (RPD) 12, 13, 102, 103
 impression materials 86, 87
 materials 69, 103
 removable prostheses 12, 13, 102–3
 implant-stabilised 102, 103, 119
 impressions 86, 87, 89
 replacement with implants 107
 replacement restorations 62, 63
 repositioning teeth 34, 35
 resin-based composites *see* composites,
 resin-based
 resin-bonded fixed partial dentures (RBFDPs) 76, 77
 resin cements 96, 97
 luting techniques 101
 resin-modified glass ionomers (RMGIs) 65, 96, 97
 luting techniques 100, 101
 resistance form 83, 97
 resonance frequency analysis (RFA) 105
 restoration materials
 cariou lesions 62, 63
 combination 65
 direct restorations 64, 65
 indirect restorations 67, 68–71
 provisional restorations 84, 85
 replacement restorations 63
 strength 68, 69
- retention form 83, 97
 retraction cords 74, 75, 90, 91
 luting 100, 101
 retrograde filling 49
 reverse torque 105
 Rickett's E-plane 54, 55
 Rochette bridge 13, 77
 cementing 96, 97, 101
 root canal
 microbial colonisation 49
 preparation for post placement 50, 51
 root canal therapy (RCT) 48, 49
 rotary instruments 74, 75
 rubber dam 73, 101
- scientific credence 32, 33
 self-etching/bonding cements 97
 self-etching (SE) dentine bonding agents 97, 98, 99, 101
 sensitivity, bleaching-induced 61
 sex, age and personality (SAP) 57
 shell production casting, direct 92, 93
 Shimstock foil 38, 39, 40
 shortened dental arch (SDA) concept 34, 35, 103
 shoulder preparation, crowns 82, 83
 Siebert classification, alveolar deficiencies 110, 111
 silica-based ceramics 71
 cements 96, 97
 full coverage crowns 67
 unilayered 71
 bilayered 71
 silicone indices 30, 31, 80, 81
 silver mercury amalgam *see* amalgam
 sinus floor augmentation (sinus lift) 110, 111
 small-diameter implants *see* mini-implants
 smear layer 49, 98, 99
 smile aesthetics 55, 59, 109
 smile arc 55, 56, 59
 Snow, SR, golden percentage 56, 57
 social history 15
 socket preservation 110, 111
 sodium perborate 61
 soft tissue(s)
 anatomy 45
 examination 17
 grafting 111
 shield concept 45
 soft tissue cone beam computed tomography (ST-CBCT) 45
 soft tissue management
 impressions 90, 91
 tooth preparation 74, 75
 solid free-form fabrication 92, 93
 splinting 13, 67, 77
 split-ridge technique 110, 111
 squamous cell carcinoma 19
 stained teeth 61, 73
 stains, caries detection 21
 stereolithography 92, 93
 study models 30, 31
 see also casts, plaster
- subgingival margins 81, 82, 83
 choice of cement 97
 taking impressions 91
 success rates 33
 sulcus (gingival crevice) 44, 45
 supragingival margins 80, 81, 82, 83
 surgical guides, implants 108, 109
 surgical stents
 fabrication 30, 31, 41
 implant insertion 112, 113
 survival rates 33
 ceramic restorations 71
 implants 107
 indirect restorations 66, 67
 resin-bonded fixed partial dentures 77
 synaesthetic perception 57
- tactile examination 21, 38, 39, 45
 temperamental theory 57
 temperature elevation 75
 templates 30, 31, 59
 temporary palliative dressings 65
 temporary prostheses, trial selective occlusal adjustment 41
 temporary restorations *see* provisional restorations
 temporomandibular joint (TMJ) disorders (TMD) 29, 39, 43
 palpation 39
 3-D printing 92, 93
 tissue engineering 111
 titanium 68, 69
 implants 115, 116, 117
 reinforced dentures 103
 tooth preparation 72–83
 defect or disease-orientated 79
 fixed partial dentures 82, 83
 full-coverage crowns 82, 83
 general guidelines 74, 75
 inlays and onlays 78, 79
 micro-invasive and minimally invasive 72, 73
 porcelain laminate veneers (PLV) 80, 81
 provisional restorations 85
 resin-bonded fixed partial dentures (RBFDP) 76, 77
 tooth wear 15, 16
 aesthetic treatment planning and 59
 bleaching risks 61
 occlusal adjustment 37, 43
 pulpal disease 49
 total etching (TE) dentine bonding agents 97, 98, 99, 101
 transillumination 18, 19, 21
 trauma
 from occlusion 28, 29, 46, 47
 of tooth preparation 75
 traumatised teeth 18, 19
 trays
 bleaching 60, 61
 impression 89
 treatment planning 32–5
 anterior aesthetics 58, 59
 implants 108, 109
 prosthetically driven (PDTP) 108, 109, 111

tuned aperture computed tomography (TACT) 21
tungsten carbide burs 75, 81

UCLA implant abutments 116, 117

UDMA (urethane dimethacrylate) provisionals
84, 85

ultrasound, biologic width determination 45

ultraviolet (UV) illumination 18, 19

undercuts 65, 79, 89

vacuum stents 30, 31, 41

venerlay (veneer-onlay) 78, 79, 81

veneers 67

impressions 86

materials 69

see also porcelain laminate veneers

vinyl polysiloxane (VPS) *see* polyvinyl siloxane

virtual articulators 28, 29

virtual diagnostic wax-ups 30, 31

virtual impressions 86, 87, 93

virtual occlusal analysis 31

virtual restorations 79

visual aids 18, 19

visual inspection 21, 38, 39, 104, 105

vitality testing 19

vital teeth

bleaching 60, 61

core build-up 52, 53

preparation 75

Ward, DH, recurring esthetic dimension (RED)
56, 57

wax-ups, diagnostic *see* diagnostic wax-ups

wear, tooth *see* tooth wear

white balance 26, 27

white spot lesion 72, 73

X-ray equipment, dental 22, 23

Zekrya retractor 74, 75

zinc oxide/eugenol (ZOE)

cement 94, 95, 96

paste, impressions 86, 87

temporary cement/dressing 65, 85

zinc phosphate (ZP) cement 51, 94, 95, 96

zirconia-based ceramics 70, 71

cements 96, 97

full coverage crowns 67

implants 115, 116, 117

posts 50, 53



