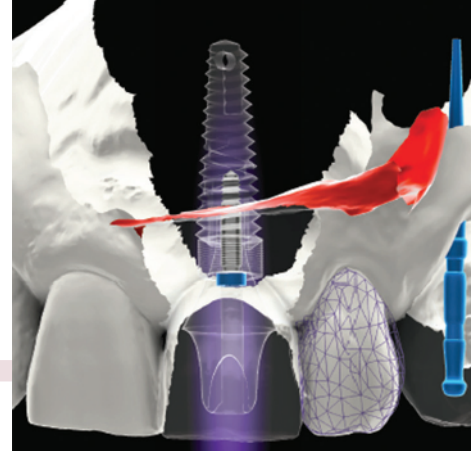


Contents



Foreword x
Preface to the second edition xi
Preface to the first edition xii
Acknowledgements xiii

Section 1

Overview of prosthodontics 1

- 1 Overview: rehabilitation of natural teeth 2
- 2 Overview: rehabilitation by artificial teeth 4
- 3 Ethics 6

Section 2

Diagnostics 9

- 4 Diagnostics: history taking 10
- 5 Diagnostics: initial consultation 12
- 6 Diagnostic adjuncts 1 14
- 7 Diagnostic adjuncts 2 16
- 8 Radiography 18
- 9 Digital acquisition: computed tomography 20
- 10 Digital acquisition: optical scanner technologies 22
- 11 Digital acquisition: IOS (intra-oral scanners) 24
- 12 Digital acquisition: EOS (extra-oral scanners) and facial scanners 26
- 13 Dental photography: equipment and principles 28
- 14 Dental photography: EDP and EPP 30
- 15 Occlusal analysis 32
- 16 Colour and shade assessment 34
- 17 Dental simulations 36

Section 3

Treatment planning 39

- 18 Treatment planning: evidence-based treatment 40
- 19 Treatment planning: decision-making 42
- 20 AI (artificial intelligence) 44

Section 4

Occlusion 47

- 21 Occlusion: terminology and definitions 48
- 22 Occlusion: clinical procedures 50
- 23 Occlusion: laboratory procedures 52
- 24 Occlusion: adjustment and splints 54

Section 5

Periodontal aspects 57

- 25 Periodontal: dentogingival apparatus 58
- 26 Periodontal: prosthodontic considerations 60

Section 6

Coronal foundation 63

- 27 Coronal foundation: endodontic considerations 64
- 28 Coronal foundation: intraradicular support 66
- 29 Coronal foundation: core build-up 68

Section 7

Dental aesthetics 71

- 30 Anterior dental aesthetics: basic principles 72
- 31 Anterior dental aesthetics: theories 74
- 32 Anterior dental aesthetics: guidelines 76
- 33 Anterior dental aesthetics: digital smile design 78
- 34 Tooth whitening 80
- 35 Non-surgical facial aesthetics (NSFA) 82

Section 8

Types of restorations 85

- 36 Choice of intracoronar restorations 86
- 37 Choice of extracoronar restorations 88

Section 9

Dental materials 91

- 38 Materials for direct restorations 92
- 39 Resin-based composites 94
- 40 Bioactive materials 96
- 41 Materials for indirect restorations 98
- 42 Ceramics 100

Section 10

Lasers 103

- 43 Lasers 1 104
- 44 Lasers 2 106

Section 11

Tooth preparation 109

- 45 Microinvasive and minimally invasive techniques 110
- 46 Guidelines for rotary tooth preparation 112
- 47 Resin-bonded fixed partial dentures (RBFPD) 114
- 48 Preparation for inlays and onlays 116
- 49 Preparation for porcelain laminate veneers 118
- 50 Preparation for full-coverage crowns and FPDs 120

Section 12

Temporary restorations 123

- 51 Provisionals 124

Section 13

Impressions 127

- 52** Soft tissue management 128
- 53** Impression materials 130
- 54** Analogue impressions 132
- 55** Digital impressions 134

Section 14

Dental laboratory – CAD/CAM 137

- 56** CAD (computer-aided design) 138
- 57** CAM (computer-aided manufacturing) 140
- 58** 3D printing - additive manufacturing (AM): technology 142
- 59** 3D printing: materials and applications 144
- 60** Digital workflows 146

Section 15

Cementation 149

- 61** Cements: overview 150
- 62** Dental adhesives 152
- 63** Contemporary cements 154
- 64** Cementing techniques 156

Section 16

Removable prostheses 159

- 65** Removable prostheses 160

Section 17

Dental implants 163

- 66** Osseointegration 164
- 67** Implants: general considerations 166
- 68** Implants: treatment planning 168
- 69** Implants: augmentation and site preparation 170
- 70** Implants: surgical techniques 172
- 71** Implants: types, configuration and design 174
- 72** Implants: abutments 176
- 73** Implants: restorative options 178

Section 18

Regenerative medicine 181

- 74** Tissue engineering 182
- 75** Stem cells 184

Index 186