

Contents

Chapter 1

The tooth surface morphoschematic biofluidity.....	13
The dentinal lobes directed morphoschema theory.....	13
Introduction.....	13
Terminology.....	17
Introduction.....	17
Reomorph.....	18
Hydroschema.....	19
The dental biofluidity terms analysis.....	20
1. Reomorphic biofluidity term analysis.....	22
2. Hydroschematic biofluidity terms analysis.....	25
The origin of the biomorphic fluidity.....	28
Introduction.....	28
Teeth biofluidity origin.....	28
The morphic biofluidity in the human perception.....	30
Introduction.....	30
Teeth morphotypes fluidity and human perception.....	32
1. The conical morphotypes.....	32
2. The rectangular morphotypes.....	33
Clinical identification of the teeth biofluidity restoration.....	34
The clinical biofluidity identification in the clinician's perception.....	37
The biofluidity conflict among clinicians and patients.....	40
The dental biofluidity analysis.....	46
Introduction.....	46
The constituents or elements of dental morphoschematic biofluidity.....	49
Analysis of the teeth's surface geometrical characteristics.....	51
1. The curved hydro-lines of the dental biofluidity.....	51
2. The curved hydro-surfaces of the dental biofluidity.....	60
3. The curved volumes of the dental biofluidity.....	63

The functional teleology and reomorphic biofluidity of the teeth.

of the teeth.	66
Introduction.....	66
Teeth function and biofluidity teleology.	68
Teeth function and geometric reomorphs categorization.	71
Restoration of the morphofunctionally accurate teeth.....	93

Classification of dental biofluidity characteristics.

Introduction.	98
The external tooth morphoschematic biofluidity characteristics.	99
Introduction.	99
1. The quantity of external dental fluidity.....	100
2. The quality of external dental fluidity.....	107
3. The location identification of external dental fluidity.	112
4. Clinical indices of external tooth fluidity	117
The occlusal table's size restriction on posteriors.	118
Cervical mesio-distal restriction index.	119
The curvature of the gingival line.	120
The "tooth face" biofluidity index.	122
The surface concavities and bulges index.	124
The sharpness of the occlusal crests.	125
The degree of concavity of the palatal surface index of the anterior teeth.	126

Chapter 2

The internal tooth Reomorphic fluidity (Dentinal lobes, DEJ, pulp)

DEJ, pulp)	128
Introduction.....	129

The dentinal lobes.

Introduction.....	131
Dentinal lobes clinical identification.	132
The central lobe issue.	138
Introduction.	138
The central lobe characteristics identification.	138
The mesiolabial axial ridge prominence.	139
The central lobe deficiency. The "shovel" and "double shovel" teeth morphoschema.	141

The dentinal lobes and the enamel cusps correlation.

The bio-crests and bulges issue.

Dentino-enamel bulges and the morphoschematic biofluidity.....	143
Introduction.	143
The tooth cervical bulges and the functional efficiency.	145

The enamel bands.	149
The occlusal enamel bulges.	151
Restorative management of the dentinal lobes.	153
Introduction.	153
The restoration of the dentinal lobes and the cusps' lobular morphs.	153
The lobular fluidity restoration guidelines.	155
 Chapter 3	
The biofluidity of dental perigrammata-reomorphs	163
(Perigrammata of teeth)	163
Introduction.	163
Reomorphic teeth groups biofluidity analysis.	164
Introduction.	164
Common reomorphic teeth characteristics considerations.	164
Clinical recommendations on the reomorphic and hydroschematic perigrammata unity reconstruction.	168
Clinical recommendations on the reconstruction of the cervical concavities unity.	170
Maxillary Incisors' (MaxIs) reomorphic biofluidity analysis.	172
1. The anterior aspect reomorphic biofluidity analysis.	172
2. The lateral aspect reomorphic MaxIs' biofluidity analysis.	176
Introduction.	176
The lateral aspect of the labial axial reoperigramma.	176
3. The occlusal aspect reomorphic MaxIs' fluidity analysis.	181
Introduction.	181
1. MaxIs' labial surface reomorphic mesiodistal biofluidity on occlusal aspect.	182
2. Incisal ridge reomorph and location biofluidity on occlusal aspect.	188
4. The palatal-lingual aspect reomorphic MaxIs' biofluidity analysis.	190
Maxillary Canines' (MaxCs) reomorphic biofluidity analysis	195
1. Maxillary canines' (MaxCs) anterior aspect reomorphic fluidity analysis. ..	195
2. Maxillary canines' (MaxCs) buccal aspect reomorphic fluidity analysis.	200
3. Maxillary canines' (MaxCs) occlusal and palatal aspect reomorphic fluidity analysis.	203
Maxillary premolars' (MaxPs) reomorphic biofluidity analysis.	207
Introduction.	207
1. Maxillary premolars (MaxPs) anterior aspect reomorphic fluidity analysis.	207
2. Maxillary premolars (MaxPs) buccal aspect reomorphic fluidity analysis.	210
Maxillary Molars' (MaxMs) reomorphic biofluidity analysis.	214

Maxillary molars (MaxMs) buccal aspect reomorphic fluidity analysis.	214
Mandibular Incisors (MandIs) reomorphic biofluidity analysis.	216
1. The anterior-labial aspect of the MandIs area biofluidity analysis.	216
<i>The MandIs area arrangement biofluidity analysis.</i>	216
<i>The MandIs incisal edges and teeth axes biofluidity.</i>	217
<i>Mandibular Incisors (MandIs) lobular biofluidity.</i>	219
2. The lingual aspect reomorphic MandIs biofluidity analysis.	224
Mandibular Canines (MandCs) reomorphic biofluidity analysis.	227
<i>Introduction.</i>	227
1. <i>The anterior-labial aspect reomorphic MandCs biofluidity analysis.</i>	227
2. <i>The MandC's reomorphic analysis of the anterior aspect.</i>	230
3. <i>The MandCs' reomorphic analysis of the lingual aspect.</i>	232
Mandibular premolars (MandPs) and molars (MandMs) reomorphic biofluidity analysis.	235
<i>Introduction.</i>	235
<i>The MandPs' reomorphic biofluidity analysis of the lingual aspect.</i>	235
<i>Morphs biofluidity inference in restorations.</i>	238

Chapter 4

The biofluidity of dental surface hydroschema	240
<i>(Surfaces of teeth).</i>	240
Introduction.	240
Part A. Types of the tooth hydroschema	242
<i>Classification of the types of the tooth hydroschema.</i>	242
<i>The hydroschematic inter-tooth diversity.</i>	246
Textured hydrofluid teeth surface analysis.	247
<i>Introduction.</i>	247
<i>Terminology.</i>	247
<i>The lobular textured teeth prevalence.</i>	248
<i>Texture components.</i>	250
<i>Teeth texture hydrofluidity restoration.</i>	253
Glossed hydrofluid teeth surface analysis.	254
<i>Introduction.</i>	254
<i>Terminology.</i>	255
<i>The clinical gloss identification.</i>	256
<i>Types of hydrogloss</i>	257
<i>Introduction.</i>	257
<i>Perikymata</i>	258
<i>Teeth gloss and shade taking.</i>	264
<i>Degrees of teeth hydrogloss.</i>	265

Teeth gloss and material restorative management.....	271
Morphs of the surface hydro-gloss reflections.....	275
Restoring the tooth surface hydrogloss.....	276
Considerations on the textured and glossy surfaces restoration	277
Lustred hydrofluid teeth Surface.	278
Introduction.	278
Definition.	278
Surface Hydroluster types	280
The specular reflection hydroluster phenomenon (bright hydroluster).	281
The diffused reflection hydroluster phenomenon (haze hydroluster).	283
The hydroluster iridescence phenomenon.....	284
The hydroluster pearlescence, nacreous phenomenon.	286
Part B. Hydroschematic teeth groups biofluidity analysis.	295
Introduction.	295
Common hydroschematic units or morphemes of the teeth biofluidity.	296
1. The “tooth face”.	296
2. The cervical bulge prominence.	298
3. The distal cervical concavity morpheme.	299
4. Middle third concavity.	300
5. The lobes hydroschematic prominence.....	301
Teeth groups hydroschematic fluidity analysis	302
Introduction.	302
1. Maxillary Central Incisors (MaxCIs) labial aspect hydroschematic fluidity analysis.....	302
MaxCIs hydroschematic characteristics and teeth morphs.	303
2. Maxillary Lateral Incisors (MaxLIs) hydroschematic biofluidity analysis.	308
Maxillary lateral Incisors (MaxLIs) labial aspect hydroschematic fluidity analysis.....	308
Maxillary lateral Incisors (MaxLIs) occlusal aspect hydroschematic fluidity analysis.....	312
Maxillary Canines (MaxCs) hydroschematic biofluidity analysis.	315
1. Maxillary canines buccal aspect hydroschematic biofluidity analysis.	315
2. Maxillary canines occlusal aspect hydroschematic fluidity analysis.....	319
3. Maxillary canines palatal aspect hydroschematic fluidity analysis.	321
Maxillary Premolars (MaxPs) hydroschematic biofluidity analysis.	322
Maxillary premolars (MaxPs) occlusal aspect hydroschematic fluidity analysis.....	322
Mandibular Incisors (MandIs) hydroschematic biofluidity analysis.	324
The labial aspect of the hydroschematic MandIs biofluidity analysis.....	324

Chapter 5

The dental morphoschematic fluidity restoration	328
Introduction.	328
A. Tooth reomorphic biofluidity restoration	329
1st step. Reomorphic teeth biofluidity identification.....	329

2nd Step. The tooth reomorphic biofluidity analysis.....	330
<i>Introduction.</i>	<i>330</i>
1. <i>Perceiving tooth morphs through point landmarks.</i>	<i>330</i>
2. <i>Perceiving tooth morphology through line distances.</i>	<i>332</i>
<i>Introduction.....</i>	<i>332</i>
3. <i>Perceiving tooth reomorphs through volumes projections.....</i>	<i>337</i>
3rd Step. The tooth reomorphic biofluidity integration concerns.....	339
B. Teeth hydroschematic biofluidity restoration.....	346
Introduction.....	346
<i>Tooth hydrotexture management by an add-on restorative process.....</i>	<i>347</i>
<i>Cases of management of add-on volumes.</i>	<i>348</i>
<i>Case of adding-on inclined curved volumes and curved lines for surface texturing.</i>	<i>348</i>
<i>Case of adding interdental tooth volume and changing teeth's reomorphs,</i>	
<i>hydrotexture and perceptual balance.</i>	<i>349</i>
<i>Case of enhancing teeth biofluidity by developing textured teeth surfaces.....</i>	<i>351</i>
<i>Management of the location of the added-on fluid volumes.</i>	<i>353</i>
<i>Tooth hydrotexture restoration by carving (cut-off) process.....</i>	<i>355</i>
1st step. <i>Morphoschema identification</i>	<i>355</i>
2nd step. <i>Sketch on the tooth surface the biofluidity characteristics.</i>	<i>355</i>
3rd step. <i>The morphoschematic surface undulation carving.</i>	<i>356</i>
4th step. <i>Engrave texturing deep vertical grooves.</i>	<i>357</i>
5th step. <i>Engrave texturing superficial vertical grooves.</i>	<i>358</i>
6th Step. <i>Engraved horizontal lines.</i>	<i>359</i>
Tooth surface hydrogloss restoration.....	360
<i>Cut-off process and gloss.....</i>	<i>360</i>
Tooth surface hydroluster restoration.....	361
<i>Superficial finish process and luster.</i>	<i>361</i>
<i>Differentiating surfaces biofluidity restoration.</i>	<i>362</i>
EPILOQUE	363
BIBLIOGRAPHY	365
INDEX.....	367

Dr. Kapagiannidis Dimitris is a clinical dentist practicing private dentistry for over 50 consecutive years.

He was enrolled at the Aristotle University of Thessaloniki, Dental School in 1974.

After graduating from Dental School in 1979, he continued to receive continual education in dental clinical practice, always with a spirit of constant scientific wonder and admiration.

In parallel with Dental School, he attended and obtained his two-year dental technician certification in 1977.

In 1996, he obtained his Certification from the NYU Postgraduate CED program on Implantology.

He obtained a 3-year postgraduate program on Prosthodontics (1997-2000) from the Aristotle University of Thessaloniki School of Dentistry.

In 2007, he obtained his certification from the NYU Postgraduate CED program on Esthetic Dentistry-Oral Rehabilitation.

The teaching experience encompasses:

- Laboratory Assistant at the School of Dental Technicians (1979–1980).
- Clinical Assistant at the Department of Fixed Prosthodontics at the Dental School of the Aristotle University of Thessaloniki (2001–2007).

The clinical interest is focused on conventional and implant-supported restorations' function and esthetic appearance.

He is the writer of many articles on Color and dental esthetics, as well as the book titled "The Color, as a parameter of tooth esthetics: Principles of Colorimetry. 2006 University Studio Press, Thessaloniki.

He lectured widely on esthetics and mainly on the optical behaviour of teeth and related esthetic materials. Other fields of lecturing are restorative issues, as occlusion, and functional morphology of dental restorations.

His current clinical interest is focused on the function, morphology, and esthetic appearance of conventional and implant-supported restorations.



ISBN: 978-618-00-6165-9

