Contents

1.	Materials for Dental Application	1
2.	Structure of Matter	5
3.	Physical and Chemical Properties of Dental Materials	9
4.	Mechanical Properties of Dental Materials	13
5.	Biocompatibility of Dental Materials	17
6.	Metals	19
7.	Dental Polymers	23
8.	Impression Materials	30
9.	Inelastic Impression Material: Impression Compound	34
10.	Inelastic Impression Materials: Zinc Oxide Eugenol Impression Paste	36
11.	Elastic Impression Materials: Reversible Hydrocolloids-Agar	39
12.	Elastic Irreversible: Hydrocolloid Impression Material-Alginate	42
13.	Elastomeric Impression Materials	45
14.	Gypsum Products	48
15.	Dental Waxes	53
16.	Casting Investment Material	55
17.	Finishing and Polishing Material	59
18.	Direct Restorative Material	64
19.	Restorative Resins	68
20.	Dental Cements	73
21.	Glass Ionomer Cement	79
22.	Dental Amalgam	82

23. Direct Filling Gold **86**

24. Dental Casting and Soldering Alloys **89**

25. Casting Gold Alloys **90**

26. Wrought Alloys **95**

27. Dental Ceramics **100**

Index *107*