

Contents

1	Overview of Surface Evaluation Techniques	1
	Ann Wennerberg, Ryo Jimbo, and Tomas Albrektsson	
2	Overview of Surface Microtopography/Chemistry/ Physics/Nano-roughness	7
	Tomas Albrektsson, Ryo Jimbo, and Ann Wennerberg	
3	Experimental and Clinical Knowledge of Surface Micro-topography	13
	Ryo Jimbo, Ann Wennerberg, and Tomas Albrektsson	
4	Experimental Evaluation of Implant Surface Chemistry	21
	Martin Andersson	
5	Experimental and Clinical Knowledge of Nanometer Scale Designing on Endosteal Implants	29
	Paulo G. Coelho, Ryo Jimbo, and Estevam A. Bonfante	
6	Development of a Novel Fluoride-Modified Implant Surface for Clinical Use	45
	Jan Eirik Ellingsen, Marta Monjo, and Joana Maria Ramis	
7	Surface Modification of Titanium and Its Alloy by Anodic Oxidation for Dental Implant	65
	Takashi Sawase and Ikuya Watanabe	
8	Novel Surfaces for Clinical Usage: The Use of Dual Acid Etching, a Historical Review, and Current Applications	77
	Pär-Olov Östman and Hugo De Bruyn	
9	Sandblasted and Acid-Etched Implant Surfaces With or Without High Surface Free Energy: Experimental and Clinical Background	93
	Stefan K. Roehling, Bo Meng, and David L. Cochran	
10	Anodized Surface and Its Clinical Performance	137
	Kiyoshi Koyano, Ikiru Atsuta, and Yohei Jinno	

11	Implant Coatings and Its Application in Clinical Reality	147
	Klaus Gotfredsen	
12	Orthodontic Implants and Orthodontic Implant Surfaces	157
	Anna Westerlund	
	Index	179