Introduction to metal-ceramic technology
Despite metal-ceramic restorations being one of the most widely used restorative appliances in prosthodontics today, many uncertainties and disagreements exist in regards to conducting certain procedures. Hence the need for such literature is immense, all the more given the author has consolidated a detailed description of clinical proceedings, technical information for certain constituent and supporting materials, together with a “step by step” course description in dental laboratory. In this second edition every chapter was revised and updated with detailed information on more contemporary products, supported with relevant references.

The book is divided into nine chapters, with a few additions such as a glossary; appendices on technicalities and an index.

Chapter one, the history of metal-ceramic restorations offers a richer and clearer perspective on how this technology has evolved.

Chapter two provides the insight to the chemistry and properties of dental ceramics. Classification of dental ceramics has been updated to reflect contemporary usage and clarify designations not found in many leading dental materials textbooks.

Chapter three, the composition of various alloys is described especially with the emphasis on physical properties. The author recognised the importance of allergy in modern population and describes the allergic response to constituent elements such as nickel and beryllium in the section on biocompatibility. The occupational risks posed to dental laboratory technicians are also explored.

Chapter Four provide more details, references and specific statements but it also broadens the explanation on the rationale for the steps in substructure design. It is rich with literature information while the terminology is well defined.

Chapter five describes spruing, investing and casting.

Chapter six is dedicated to theories explaining the nature of the metal-ceramic interface.

Chapter seven, more references and improved formatting of the technical steps associated with soldering processes. Complete description of the procedure for manufacturing metal-ceramic restorations author emphasizes the importance of knowledge of the laboratory workflow by therapists as well as the importance of harmonious functioning of the prosthetic team. Chapter eight describes certain contemporary ceramic materials with a special reference to technical details.

Chapter nine, reproducing the variation in natural teeth is explained through an emphasis on the outline form, surface texture and level of glaze.

Finding ones way around the text has been made much easier with the index of the most relevant terms. This book was written for dental students, dentists, prosthodontic residents and residents of other dentistry fields.

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