

## Orthodontics: Current Principles and Techniques

Thomas M. Graber and Robert L. Vanarsdall

Mosby Yearbook Inc., St. Louis, USA. Price: £132.00, ISBN: 0-8016-6590-6

Although this is the second edition of this text book edited by Graber and Vanarsdall it is, in fact, the fourth version of this book. The first two were by Graber and Swain. There are 16 chapters written by 20 authors mainly from the USA, but with some notable contributions from well-known European orthodontists. There are three completely new chapters which make welcome additions and reflect the changing nature of orthodontics.

Because different authors have written each chapter, it is to be expected that the style changes some what throughout the book. In a large text book such as this, is not necessarily a disadvantage as it can make the reading more interesting. There are six chapters relating to diagnosis and treatment planning in orthodontics followed by 10 chapters on techniques. There is a certain amount of overlap between various sections of the book and it is rather odd to see a section on Interceptive Guidance on the Occlusion in the first section only to be followed by Mixed Dentition Treatment in the second section.

This is a very comprehensive text book with a number of excellent contributions particularly on Bonding in Orthodontics by Zachirsson; Periodontal/Orthodontic Interrelationships by Vanarsdall, and Retention and Relapse by Joondeph and Riedel.

As with any text book, there are always sections where the reviewer will not be in full agreement with the authors. In chapter one on Diagnosis and Treatment Planning in Orthodontics, it was very disappointing to see that hand wrist radiographs are still being used as, predictors for adolescent growth despite the fact these have been shown to be of little value by Houston *et al.* (1979). In a later chapter on Interceptive Guidance of Occlusion, it was also disappointing to see that serial extractions are still being advocated despite their lack of reliability. The sections on functional appliances are well written, although one wonders why the chapter on Combined Activator Headgear Orthopaedics, which is almost entirely devoted to the appliance of Stöckli and Teuscher is substantially longer than the chapter by Graber which deals with nearly every other type of functional appliance. The section on mixed dentition treatment by McNamara repeats some of the functional appliance section and advocates the use of chin cups for the treatment of some Class III malocclusions, which is surprising.

On the whole, the criticisms of this text are only minor and it has much to commend it. It certainly fulfils its aim of being a text for graduate students and should find a place in all orthodontic libraries.

Dai Roberts-Harry

## Cell Physiology (1995)

N. Sperelakis

Academic Press, London. Price: £76.00, ISBN: 0-12-656920-3

This book deals with physiology and biophysics at the cellular level. Hence, there is no coverage of organ systems. Among the main topics covered are metabolism and secondary messengers, transport physiology, membrane excitability and ion channels, synaptic transmission and sensory transduction, muscle and other contractile systems. The book contains 50 chapters contributed by leading American and Canadian research scientists. The black and white text is

of high quality and very well illustrated, and each chapter contains a good bibliography. Whilst primarily intended for postgraduate and advanced undergraduate students, it should also provide a valuable reference source for dental undergraduate students to dip into for certain topics to supplement their more organ-based texts of physiology.

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