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Orthodontic miniscrew implants (2008)

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The book consists of 10 chapters in over 255 pages.

Within a short introduction, the problems of conventional methods of anchorage are outlined. The beneficial development from osseointegrated microimplants to miniscrews establishing stable orthodontic anchorage is described and illustrated by an impressive case report—a skeletal open bite is closed by implant-assisted molar intrusion. The following chapters give a review of the spectrum of implants used for orthodontic purposes: midpalatal implants, on-plants, and miniscrews. The third chapter deals with current concepts and controversies of miniscrew implants. The following topics are discussed—method of insertion: drill-free versus pre-drilling, primary stability—osseointegration versus mechanical interlocking, timing of loading—immediate versus delayed loading, etc. The chapter ‘Terminology, design features and armamentarium’ offers a well-illustrated description for inserting miniscrews by hand or motor-driven instruments. The following chapter extensively covers anatomical

considerations (bone quality, soft tissue thickness, structures in the vicinity of the site of placement) and implant placement and removal in different areas of the upper and lower jaw.

Chapters 6–9 represent the focus of the book with over 185 pages of copiously illustrated case reports that document the benefits of miniscrew anchorage for antero-posterior tooth movements, *en masse* retraction, molar distalization and mesialization, and intrusion of different tooth groups and implant anchorage for transverse and asymmetric tooth movements. Finally, complications during and following insertion, during the loading period, and removal as well as their management are discussed.

The book is well structured, contains a great many useful incentives and impresses by excellent illustrations. It can be highly recommended for all who wish to place or work with mini-implants for orthodontic anchorage.

Peter Diedrich

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