



Auflage: 1st Edition 2015
Seiten:: 608
Abbildungen: 2198
Einband: Hardcover
ISBN: 978-0-86715-651-5
Artikelnr.: B6515
Erschienen: August 2015

Preis \$98.00
Änderungen vorbehalten!

Quintessence Publishing Company, Inc.

411 North Raddant Road
IL 60510 Batavia
Vereinigte Staaten von Amerika

+1 (0)630 / 736-3600

+1 (0)630 / 736-3633

contact@quintbook.com

<https://www.quintessence-publishing.com/usa/en>

Buch-Information

Autoren: Charles J. Burstone / Kwangchul Choy

Titel: The Biomechanical Foundation of Clinical Orthodontics

Kurztext:

All orthodontic treatment modalities can be improved by the application of sound biomechanics, yet most orthodontic therapy today is delivered without consideration of forces or force systems. Orthodontic hardware itself is only a means to an end point, such as tooth alignment, bone remodeling, or growth modification; the orthodontist can achieve these goals only by manipulating forces, regardless of the techniques used. Written by a world-renowned authority on the subject, this book teaches biomechanics in an easy-to-understand and engaging way, using universal examples outside orthodontics to illustrate basic force systems and how they function and then applying these principles to the practice of clinical orthodontics. The authors cover all of the force systems an orthodontist needs to understand to deliver effective treatment, explaining how each can be controlled and manipulated and demonstrating the forces at work through highly instructive 3D illustrations. Most chapters conclude with the presentation of several study problems, allowing the reader an opportunity to practice developing treatment plans using the biomechanical concepts discussed in each chapter. (Answers are provided at the end of the book.) This book is sure to be an instant classic.

Contents

Part I. The Basics and Single-Force Applications

Chapter 01. Why We Need Biomechanics

Chapter 02. Concurrent Forces Systems

Chapter 03. Nonconcurrent Force Systems and Forces on a Free Body

Chapter 04. Headgear

Chapter 05. The Creative Use of Maxillomandibular Elastics

Chapter 06. Single Forces and Deep Bite Correction by Intrusion

Chapter 07. Deep Overbite Correction by Posterior Extrusion

Chapter 08. Equilibrium

Part II. The Biomechanics of Tooth Movement

Chapter 09. The Biomechanics of Altering Tooth Position

Chapter 10. 3D Concepts in Tooth Movement

Chapter 11. Orthodontic Anchorage

Chapter 12. Stress, Strain, and the Biological Response

Part III. Advanced Appliance Therapy

Chapter 13. Lingual Arches

Chapter 14. Extraction Therapies and Space Closure

Chapter 15. Forces From Wires and Brackets

Chapter 16. Statically Determinate Appliances and Creative Mechanics

Chapter 17. Biomechanics and Treatment of Dentofacial Deformity

Chapter 18. The Biomechanics of Miniscrews: From Single-Tooth Control to Total-Arch Movement

Part IV. Advanced Mechanics of Materials

Chapter 19. The Role of Friction in Orthodontic Appliances

Chapter 20. Properties and Structures of Orthodontic Wire Materials

Chapter 21. How to Select an Archwire

Fachgebiet(e): Kieferorthopädie