



Auflage: 2. Auflage 2022  
Seiten: 516  
Abbildungen: 1584  
Einband: Hardcover; 21.6 x 28 cm  
ISBN: 978-0-86715-949-3  
Erschienen: Mai 2022

#### KVM - Der Medizinverlag

📍 Ifenpfad 2-4  
12107 Berlin  
Deutschland

☎ +49 (0) 30 / 76180-5

📠 +49 (0) 30 / 76180-680

✉ info@quintessenz.de

🌐 <https://www.quintessence-publishing.com/kvm/de>

## Buch-Information

**Autoren:** Kwangchul Choy

**Titel:** Burstone's Biomechanical Foundation of Clinical Orthodontics

**Kurztext:**

Dr Charles Burstone was a pioneer in orthodontic biomechanics, and his legacy lives on in this second edition of his book, with Dr Kwangchul Choy at the helm. This textbook has taught thousands of orthodontists the importance of understanding biomechanics to ensure healthy, predictable movements in clinical practice, and this new edition will undoubtedly do the same for the new generations of students. Technology continues to advance in orthodontics, but no technology can replace a sound understanding of how the teeth move in their periodontal apparatus and how they can be pushed or pulled to get where they need to be. This book is the difference between an orthodontist who can move teeth and one who can plan cases with predictability and achieve the sought-after results.

#### Contents

##### Part I. The Basics and Single-Force Appliances

Chapter 01. Why We Need Biomechanics  
Chapter 02. Concurrent Force 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 Bite 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

##### Part III. Advanced Appliance Therapy

Chapter 12. Lingual Arches  
Chapter 13. Extraction Therapies and Space Closure  
Chapter 14. Forces from Wires and Brackets  
Chapter 15. Principles of Statically Determinate Appliances and Creative Mechanics

##### Part IV. Advanced Mechanics of Materials

Chapter 16. The Role of Friction in Orthodontic Appliances  
Chapter 17. Properties and Structures of Orthodontic Wire Materials  
Chapter 18. How to Select an Archwire

##### Part V. Appendices

- Hints for Developing Useful Force Diagrams
- Glossary
- Solutions to Problems
- Bender's Tool Kit

#### Contributors

Charles J. Burstone\* • Kwangchul Choy • Giorgio Fiorelli • A. Jon Goldberg • Paola Merlo • Rodrigo F. Viecilli

\*Deceased.

**Fachgebiet(e):** Kieferorthopädie, Literatur fürs Studium