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## Buch-Information

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**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

## Authors

Charles J. Burstone, DDS, MS (1928 - 2015), was a pioneer in his field, introducing biomechanical concepts to clinical orthodontics by formulating the segmented arch technique. He was responsible of developing robust orthodontics departments at Indiana University and later at the University of Connecticut, which both became internationally known for their research and for the quality of their graduates, many of whom went on to become outstanding clinicians and teachers throughout the world. Always an innovator, Dr Burstone was an early developer of interactive computer programs for diagnosis and treatment planning, a codeveloper of new wires using titanium-molybdenum alloy (TMA) and Chinese nickel titanium (NiTi) alloy, and the lead researcher in the development of long-fiber-reinforced composites in appliance design. He held various patents related to his work. As an active member of numerous dental societies and organizations, Dr Burstone was the recipient of many distinguished awards and honors. He published many books and chapters as well more than 200 articles in refereed journals. Dr Burstone was professor emeritus of the Division of Orthodontics at the University of Connecticut, where he donated much of his time and energy until his passing in February 2015.

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