The Alexander Discipline, Volume 3: Unusual and Difficult Cases
R. G. “Wick” Alexander

Following in the footsteps of the previous two volumes, this third and final volume of the Alexander Discipline series focuses on the treatment of unusual and difficult cases. Like earlier volumes, this new book demonstrates through the presentation of complete patient records how the outlined principles can be used to achieve beautiful, functional, and stable results, even in patients requiring creative treatment planning and treatment mechanics. In the situations presented in this book, there is no one right answer to the problem, and the orthodontist must have the confidence and relevant knowledge to formulate the treatment plan most suitable for each patient.

Contents
Open Bite  •  Deep Bite  •  Borderline Treatment  •  Class III Treatment  •  Early Treatment  •  Adult Treatment  •  Atypical Extractions  •  Impacted, Transposed, and Missing Teeth

ISBN 978-0-86715-469-6 (B4696); Available Spring 2015

The 20 Principles of the Alexander Discipline
R. G. “Wick” Alexander

Introduced in 1978, the Alexander Discipline represents a unique approach to orthodontic treatment; today, clinicians around the world apply its 20 master principles in their practices.

232 pp; 1,000 illus; ©2008; ISBN 978-0-86715-467-2 (B4672); US $138

The Alexander Discipline, Volume 2: Long-Term Stability
R. G. “Wick” Alexander

With so many factors influencing long-term stability, this book presents six guidelines for approaching long-term stability in orthodontics, focusing on the periodontium, torque control, skeletal and transverse control, occlusion, and the soft tissue profile.

204 pp; 1,000 illus; ©2011; ISBN 978-0-86715-468-9 (B4689); US $152

Handbook of Cephalometric Superimposition
Herman S. Duterloo and Pierre-Georges Planché

The authors provide a critical review of cephalometric superimposition and the background and development of the structural method, demonstrate how to apply the structural method, and provide help and instruction for correct interpretation of the resulting superimpositions.

220 pp; 550 illus; ©2011; ISBN 978-0-86715-508-2 (B5082); US $118

Contemporary Cephalometric Radiography
Kunihiko Miyashita

In this book, radiographs of the skull are juxtaposed with photographs and drawings, and tracing procedures for posteroanterior cephalograms, submentovertex radiographic projections, and lateral cephalograms are detailed.

292 pp; 929 illus; ©1996; ISBN 978-4-87417-517-0 (B9903); US $195

Evidence-Based Clinical Orthodontics
Edited by Peter G. Miles, Daniel J. Rinchuse, and Donald J. Rinchuse

The authors of this book systematically review the relevant clinical literature and analyze the scientific evidence to help practitioners select the most effective and efficient modes of treatment. Each chapter addresses a specific topic by summarizing the literature, critically reviewing the evidence, and offering impartial recommendations that can be adopted by clinical practitioners. Topics include Class II and Class III malocclusions, wires and wire sequences, dental asymmetries, causes of root resorption, and retention strategies, among others.

220 pp; 590 illus; ©2012; ISBN 978-0-86715-564-8 (B5648); US $118

A Concept of “En Bloc” Movement of Teeth Using Gummetal Wire
Shin Hasegawa

This book outlines a system of orthodontic therapy based on the use of Gummetal archwire that can improve patient comfort and shorten treatment time. Gummetal combines a super-low Young modulus with extreme strength. The use of Gummetal in “en bloc” protocols allows clinicians to construct simple orthodontic appliances that not only distribute a gentle, near- optimum force but can also achieve an ideal occlusion in less time than traditional treatment. The author details the characteristics and application of Gummetal and the “en bloc” treatment strategies that maximize 3D tooth movement in orthodontic therapy. This groundbreaking book provides clear direction in the use of Gummetal archwire and presents anew treatment protocols that are sure to revolutionize orthodontic therapy.

260 pp; 1,928 illus; ©2014; ISBN 978-4-7812-0386-7 (B9919); US $150

Radiographic Cephalometry: From Basics to 3-D Imaging, Second Edition (Book/CD-ROM set)
Edited by Alexander Jacobson and Richard L. Jacobson

This important textbook addresses the advantages of 2D versus 3D analysis; the use of imaging; the value of electronic storage, analysis, and retrieval of records; anteroposterior cephalometry; and 3D cephalometric analysis. An accompanying CD-ROM contains a reproducible headfilm and templates for both manual and digital cephalometry.

320 pp; 509 illus; ©2006; ISBN 978-0-86715-461-0 (B4616); US $110
Mini-Implants: The Orthodontics of the Future
Edited by Skander Ellouze and François Darque

Mini-implants offer a useful orthodontic anchorage solution with relatively simple placement that does not rely on patient cooperation and is reliable. This comprehensive book presents the essentials of orthodontic treatment using mini-implants and outlines selection, placement, biomechanics, diagnosis, and treatment strategies. The authors detail the biomechanical application of mini-screw-supported alveolar anchorage in precise and effective therapeutic protocols to treat every type of malocclusion, including orthodontic movements that were difficult or even impossible to achieve previously. The authors also discuss the management of mini-implants in multidisciplinary treatment. With clearly defined indications, codified protocols, and reproducible therapeutic efficacy and clinical results, this book details a full-fledged treatment system that uses mini-implants to achieve functional and esthetic outcomes.

Contents
Selection • Placement Techniques • Biomechanics • Maxillary Molar Distalization • Mandibular Molar Distalization • Molar Protraction • Arch Asymmetries • Molar Vertical Control • Mini-Implant-Assisted Expansion • Multidisciplinary Treatments


Aligner Orthodontics: Diagnostics, Biomechanics, Planning and Treatment
Werner Schupp and Julia Haubrich

This book presents useful tips and strategies on how to integrate the Invisalign system successfully into clinical practice. The authors review the diagnostic protocols and the biomechanics of aligners before presenting Invisalign treatment protocols. With the support of accompanying case documentation, discussion of each malocclusion includes information on the associated symptoms, the rationale behind the selected treatment approaches, and the various outcomes achieved. The last section of this book deals with the advantages of the Invisalign system and can help patients and clinicians in deciding whether this system can provide optimal treatment outcomes for a particular clinical situation. This is a practical manual for any clinician interested in the novel treatment modality of aligner orthodontics.

450 pp; 2,000 illus; ISBN 978-1-85097-284-6 (89064); Available Spring 2015

Clinical Success in Invisalign Orthodontic Treatment
Richard Bouchez

The author introduces the reader to the essentials of Invisalign, from the biomechanics of thermoformed plastic aligners to the ClinCheck 3D simulation software, which allows the clinician to program the velocity and direction of tooth movements; amount and frequency of force; anchorage; and space necessary for the planned movements.

138 pp (softcover); 516 illus; ©2011; ISBN 978-2-912550-67-5 (89312); US $120

The Invisalign System
Edited by Orhan C. Tuncay

This textbook presents the Invisalign treatment process, from impression taking and image acquisition to virtual diagnosis through digital 3D treatment planning. The software, appliance design, manufacturing, material properties, biomechanics, and periodontal response to treatment are explained.

330 pp; 856 illus; ©2006; ISBN 978-1-85097-127-6 (88837); US $228

Atlas of Bracketless Fixed Lingual Orthodontics: Basic Concepts
Anna Marinelli and Fabio Cozzolino

This atlas illustrates a bracketless technique for resolving malocclusions in the permanent dentition that provides invisible orthodontic treatment with minimal patient discomfort. This innovative method, characterized by the use of orthodontic wires directly bonded to the lingual surfaces of the teeth, was first used to treat relapse of anterior misalignments and tooth crowding in the anterior dentition. Over time the technique has evolved, and the authors of this book use bracketless fixed lingual orthodontics to resolve all types of malocclusions. This monograph details their technique, including the materials used, clinical procedure for forming appliances, bonding to dental surfaces, detailed analysis of possible treatments in relation to various malocclusions, and how to control specific tooth movements. The therapeutic concepts are fully illustrated through case examples of increasing complexity. Additional topics include use of provisional teeth in extraction cases as well as bone regeneration through orthodontic movements.

Contents
Materials • Clinical Procedure • Analysis of Tooth Movements • Clinical Cases • Bone Regeneration by Orthodontic Movement • Orthodontic Extractions and Provisonal Teeth

Available Spring 2015

Orthodontic Setup
Giuseppe Scuzzo, Kyoto Takemoto, and Luca Lombardo

The orthodontic setup is meant to provide a 3D representation of the occlusion at the end of treatment. Although the orthodontic setup was first described by Kesling in 1945 and has become an indispensable tool, there are no standardized guidelines. Orthodontic technicians must therefore draw on their personal experience, know-how, and best professional practices—in short, a series of unwritten rules that are by no means universal. With this in mind, the authors have set out to describe the procedures used in the construction and evaluation of a setup that can be used both for diagnostic purposes and to manufacture customized orthodontic appliances. Although the principles apply to orthodontic setup in general, this book focuses on lingual orthodontics. The manual and digital tools currently available to professionals in this field are discussed, with a particular focus on the recent developments in CAD/CAM bracket-positioning technology.

128 pp; 342 illus; ©2014; ISBN 978-8-87492-188-1 (89523); US $125
The Biomechanical Foundation of Clinical Orthodontics
Charles J. Burstone and Kwangchul Choy
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
Concurrent and Nonconcurrent Force Systems • Headgear • Maxillomandibular Elastics • Deep Bite Correction by Intrusion and by Extrusion • Equilibrium • Biomechanics of Altering Tooth Position • 3D Concepts in Tooth Movement • Orthodontic Anchorage • Stress, Strain, and the Biologic Response • Lingual Arches • Extraction Therapies and Space Closure • Forces from Brackets and Wires • Statically Determinate Appliances • Biomechanics and Treatment of Dentofacial Deformity • Biomechanics of Miniscrews • Friction in Orthodontic Appliances • Orthodontic Wire Materials and Selection

Early-Age Orthodontic Treatment
Aliakbar Bahreman
This book presents readers with the information necessary to understand the morphogenesis of orthodontic problems, to differentiate among various conditions, and to apply early intervention approaches to optimal effect. The author emphasizes the developmental stages that must be recognized during patient examination to facilitate differential diagnosis; presents clear, step-by-step instructions for different treatment options; and demonstrates the benefits achieved by intervention in developing malocclusions and guidance of eruption. This book cuts through the controversy surrounding early versus late treatment and shows that clinicians must decide on a case-by-case basis when to provide orthodontic treatment.

Biomechanics in Orthodontics: Principles and Practice
Ram S. Nanda and Yahya S. Tosun
Correct application of the principles of biomechanics leads to highly efficient and successful orthodontic treatment; a lack of proper understanding produces ineffectual systems that may even lead to collateral tissue damage. This essential book introduces students of orthodontics to the evolution of orthodontic technology and the properties of orthodontic materials and outlines the essential mechanical principles behind successful orthodontic treatment.

Manual of Wire Bending Techniques
Eiichiro Nakajima
This manual promotes precise, intuitive bending and presents the essential components and techniques of customized wire bending, including trimming of casts; selection of pliers; the first-order bends (in or out), second-order bends (up or down), and third-order bends (torque); and optimal methods of adjustment during orthodontic treatment.