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Essentials of Facial Growth: Donald H. Enlow 1996 Authored by the foremost experts in the field, this compact reference serves the student and clinician by relating basic science to successful treatment planning. It demonstrates how the best instrument in dental medicine is often the practitioner’s knowledge of growth and development. The book’s structure is designed to be easy to follow, with clear explanations and comprehensive illustrations to help readers understand the role of growth in dental treatment. The book covers everything from the basics of growth to more advanced topics such as craniofacial growth and development.

Facial Growth: Donald H. Enlow 1990

Forensic Facial Reconstruction: Caroline Wilkinson 2008-11-13 Forensic facial reconstruction is the reproduction of an individual's face from skeletal remains. Used when other forms of identification are very difficult or impossible, it can give a name to the dead in forensic cases, or in archaeological contexts, provide a tangible impression of real individuals from our past. This comprehensive work starts with a discussion of the importance of the face in society and the history of facial reconstruction, going on to evaluate the accuracy of modern reconstruction methods. The book covers bone grafting, facial soft tissue and skeletal growth, and explains the relationship between the hard and soft tissues of the face are described in detail. Uniquely, it also describes the methods and problems associated with reconstructing the faces of children. Collating all published facial tissue data and describing tissue variations with reference to age, sex, stature and ethnic origin, this book will be an important reference volume for all practitioners in the field.


Cranio-Facial Growth in Man: Robert E. Moynier 2013-10-22 Cranio-Facial Growth in Man contains the proceedings of a Conference on Genetics, Bone Biology, and Analysis of Growth Data, held in Ann Arbor, Michigan on May 1-3, 1967. Contributors discuss the state of knowledge in the area of cranio-facial growth, with emphasis on three primary areas of cranio-facial research: bone biology, genetics, and analysis of growth data. This text consists of 19 chapters organized into six sections. After giving an overview of research on cranio-facial growth done at the National Institute of Dental Research (NIDR), this book turns its attention to the biology of bone. Topics covered in this section include the mechanisms of cartilage growth and replacement in endochondral ossification; the histological characteristics of bone that reflect mineral homeostasis; and modes of growth of the neurocranium. The reader is also introduced to the genetics of cranio-facial growth and techniques in processing and handling growth data. A chapter that evaluates methods and perspectives in cranio-facial research concludes the book. This book will serve as a useful guide to prospective and active investigators in the field of human biology, to graduate students in their selection of a meaningful research topic, and to the NIDR in terms of future program planning.

CranioMaxillofacial Reconstructive and Corrective Bone Surgery: Alex M. Greenberg 2007-11-23 This advanced book of rigid fixation describes the scientific principles and applied techniques primarily for the AO/ASIF hardware system.

Essential Orthodontics: Birgitt Thilander 2017-07-24 "A comprehensive introduction to the biological principles of orthodontics. This book covers the why, when and how of orthodontics, enabling readers to identify which individuals need to be treated, to diagnose based on individual dentofacial development, and to understand the mechanical principles and tissue responses involved." --Provided by publisher.

Jaws: Sandra Kahn 2018-04-10 There's a silent epidemic in Western civilization, and it is right under our noses. Our jaws are getting smaller and our teeth crooked and crowded, creating not only aesthetic challenges but also difficulties with breathing. Modern orthodontics has persuaded us that braces and oral devices can correct these problems. While teeth can certainly be straightened, what about the underlying causes of this rapid shift in oral evolution and the health risks posed by obstructed airways? Sandra Kahn and Paul R. Ehrlich, a pioneering orthodontist and a world-renowned evolutionist, respectively, present the biological, dietary, and cultural changes that have driven us toward this major health challenge. They propose simple adjustments that can alleviate this developing crisis, as well as a major alternative to orthodontics that promises more significant long-term relief. Jaws will change your life. Every parent should read this book.

Orthodontics: Daljit S. Gill 2012-03-27 This latest addition to the Dental Update series books provides a clear and thorough guide to contemporary orthodontic principles and practice. Written as a highly practical clinical manual, it covers patient assessment, diagnosis and treatment planning of both standard class malocclusions and specific entities such as impacted teeth, digit sucking habits and asymmetries, as well as appliance techniques, complex and multidisciplinary care, and retention. Orthodontics: Principles and Practice is written by a range of international specialists in the field. It is an essential guide to the subject for dentists seeking to improve their knowledge of orthodontics, as well as dentistry students and trainee orthodontists. Key features • Covers the full process of orthodontic treatment from initial patient assessment to post-treatment stability • Provides up to date, evidence based and clinically relevant information • Presented in a clear practical format for use as a clinical manual • Written by international orthodontic specialists • Highly illustrated in full colour throughout.

Orthodontics at a Glance: Daljit S. Gill 2013-05-06 Orthodontics at a Glance is part of the highly popular at a Glance series. It provides a concise and accessible introduction and revision aid. Following the familiar, easy-to-use at a Glance format, each topic is presented as a double-pagespread with key facts accompanied by clear diagrams encapsulating essential knowledge. Structured over four sections, Orthodontics at a Glance covers: Craniofacial growth and development Diagnosis and treatment planning The management of malocclusion Treatment techniques Orthodontics at a Glance is the ideal companion for all students of dentistry, junior clinicians and those working towards orthodontic specialization. In addition the text will provide invaluable insight for general dental practitioners wanting to update their orthodontic knowledge, orthodontic nurses, therapists and technicians.

Perspectives on the Face: Meyer Michael Cohen 2006 Our faces play essential roles in defining us as individuals. They are the most immediately identifiable parts of our bodies. We use our faces to communicate emotions and to interact socially. Sometimes, despite our intentions, our faces reveal our thoughts even when we do not speak. In several medical conditions, the facial aspect confirms diagnosis, and while surgical alteration of craniofacial anomalies can do much to normalize appearance, patients are always confronted with the question of what is normal, and with the fact that beauty itself may be nothing more than a culturally determined concept. This book explores a range of distinct yet related perspectives on the face—
the evolutionary, the developmental, the anatomic, the dysmorphic and genetic, the surgical, the psychological, the sociocultural, and the artistic. As a cross-disciplinary study, it is the first to comprehensively address the question of what constitutes a face, and to span the gap between symbolic interpretation and scientific fact. Both broadly informative and in-depth in its discussions, this highly readable book will be of interest to biologists, geneticists, plastic surgeons, craniofacial surgeons, oral and maxillofacial surgeons, psychologists, sociologists, anthropologists, and others with a special interest in the face.

Handbook of Facial Growth—Donald H. Enlow 1982

Careers in Dentistry—Institute for Career Research 2016-01-03 MOST PEOPLE DO NOT LOOK FORWARD to visiting the dentist. Many avoid it as long as possible. Yet those same people will leave the dentist’s office relieved, often with big smiles (assuming the Novocain has worn off). What most people do not realize is that the profession of dentistry has come a long way in recent years. New techniques and technologies such as lasers and air abrasion devices have changed the way dentists treat patients. A visit no longer has to be a source of dread. Dentistry involves more than just teeth alone. A dentist provides healthcare for the oral cavity, including soft tissue and bone, as well as the associated head and neck region. A typical dentist visit starts with an examination of the patient’s teeth and mouth tissue. Based on what the dentist finds, a diagnosis is made and a treatment plan is proposed. Treatment may include removing tooth decay, filling cavities, repairing damaged teeth, extracting teeth, and/or replacing lost teeth. Most dentists are generalists who provide a wide array of services. On a given day, a general dentist will see people of all ages and backgrounds—sometimes entire families. There is never a dull moment because dentists never know who will be in the examining room, or what they will need. A patient could just be there for a checkup and cleaning. In that case, the dental hygienist on staff will take care of the cleaning, and the dental assistant will take a set of x-rays. The dentist will look at the x-rays in search of problems that need to be addressed right away or point out possible problems that need to be watched. The next patient could be suffering from a damaged tooth, broken during a fall. The dentist will need to determine if and how the tooth can be saved, and provide immediate treatment. There are also dentists who practice in certain specialized areas of dentistry. There are nine specialties recognized by the American Dental Association (ADA). Each requires additional training, but the payoff is a higher than average income for the licensed dentist. The most popular specialties are orthodontics (teeth straightening) and prosthodontics (artificial teeth). Dentists are highly educated professionals. It takes four years of undergraduate studies as a pre-dental student, followed by another four years in dental school. In order to get into dental school, the applicant must first take the Dental Acceptance Test (DAT) by their junior year in college. Getting into dental school is extremely competitive so the results on the test is important. Many students take practice tests, sometimes as early as high school. Dental school is a rigorous mix of classroom instruction and hands-on clinical work. Upon graduation, dentists need to obtain a license to practice. Specific licensure requirements vary by state. Newly minted dentists can look forward to one of the best careers available today. They are well compensated with a median annual income of $150,000. Even those starting out can expect to earn at least $65,000 in their first year of practice. Those who take the time to become specialists can earn more than $180,000. Dentistry is also a stable career with more opportunities than the available dentists can fill. There is a growing demand for dentists that is not expected to slow down any time soon. Perhaps most important of all is the agreeable work-life balance dentists enjoy. Most dentists work in private practice and can decide for themselves how much they want to work. Dentistry is one of the few professional careers that actually offers the chance to work part time without losing traction. If you have an interest in healthcare, and like to work with your hands as well as your mind, dentistry is worth a look.”

Your Jaws Your Life—David C. Page 2003-01-01

Mammalian Evolutionary Morphology—Eric J. Sargis 2008-05-21 This book celebrates the contributions of Dr. Frederick S. Szalay to the field of Mammalian Evolutionary Morphology. Professor Szalay is a strong advocate for biologically and evolutionarily meaningful character analysis. He has published about 200 articles, six monographs, and six books on this subject. This book features subjects such as the evolution and adaptation of mammals and provides up-to-date articles on the evolutionary morphology of a wide range of mammalian groups.

Fundamentals of Maxillofacial Surgery—James W. Ferraro 2012-12-06

James Ferraro, President of the American Society of Maxillofacial Surgeons, presents this comprehensive volume, based on the Societys annual courses. He brings together top names in the field to cover the anatomy and basic techniques of both the hard and soft tissue elements. While serving as an ideal introduction for residents this also makes for a subject review and “refresher course” for more experienced surgeons. Over 300 exclusive line drawings accompany discussions of embryology of the head and neck; oral, head and neck anatomy; basic principles of bone fixation; and traumatic deformities and fractures of the mandible, mid and upper face.

Orthodontics—Basavaranj Subhashchandra Phulani 2011-05-30 Comprehensive textbook on facial development, orthodontic diagnosis and treatment planning. Includes complementary MCQs booklet and contributions from leading international experts.

Liberty & Learning—Robert C. Enlow 2009-09-25 Fifty years ago, Milton Friedman had the ground-breaking idea to improve public education with school vouchers. By separating government financing of education from government administration of schools, Friedman argued, “parents at all income levels would have the freedom to choose the schools their children attend.” Liberty & Learning is a collection of essays from the nation’s top education experts evaluating the progress of Friedman’s innovative idea and reflecting on its merits in the 21st century. The book also contains a special prologue and epilogue by Milton Friedman himself. The contributors to this volume take a variety of approaches to Friedman’s voucher idea. All of them assess the merit of Friedman’s plan through an energetic, contemporary perspective, though some authors take a theoretical position, while others employ a very pragmatic approach.

Textbook of Orthodontics—Gurkeerat Singh 2008-12-01

Netter’s Advanced Head and Neck Flash Cards E-Book—Neil S. Norton 2016-06-26 Netter’s Advanced Head & Neck Anatomy Flash Cards are the perfect portable study tool for quizzesing yourself on key anatomic structures and clinical conditions of the head and neck. They accentuate the clinically relevant anatomy through beautiful Netter illustrations and new artwork in the Netter tradition, making for a fast and fun review at any stage of your healthcare career. Cards are cross-referenced to the parent text, Netter's Head and Neck Anatomy for Dentistry, 3rd Edition, and include much of the new art from the textbook. Beautiful, well-known Netter illustrations accentuate the clinically relevant anatomy. Includes additional Imaging, New Art, and Clinical Correlate cards. Perfect for quick, portable study for head and neck and dental anatomy courses. Allow you to quiz yourself on key anatomy terms and test your knowledge of classic presentations of disease.

The Seven Mountain Prophecy—Johnny Enlow 2015-11-03 God is preparing a spiritual tsunami to sweep the nations and reclaim our culture for Christ, says author Johnny Enlow. He describes seven culture-shaping areas of influence over each society—media, government, education, economy, family, religion, and celebration (arts and entertainment)—that are the keys to taking a nation for the kingdom of God. The purpose of this book is to draw the church’s attention to these areas; help each individual determine his or her specific assignment in this mission; and then to offer insight into the nature of the battles involved in this “spiritual tsunami,” as the author calls it.

Essentials of Orthodontics—Aravind Sivaraj 2013-08-31 This textbook is a comprehensive guide to clinical and surgical orthodontics for dental students. Beginning with an introduction to the history and scope of orthodontics, the following chapters describe growth and development, and different circumstances that may require orthodontic treatment. Diagnosis and treatment planning are discussed in depth, as are the latest materials and appliances, and the mechanics of how these appliances move teeth. Written in clear, easy to understand language, this invaluable resource is highly illustrated with more than 360 clinical photographs, diagrams, tables and flowcharts. Key points Comprehensive guide to orthodontics for dental students In depth coverage of diagnosis, treatment planning, materials, appliances and mechanics Presented in clear, easy to understand format Includes more than 360 photographs, diagrams, tables and flowcharts
Handbook of Cephalometric Superimposition-Herman S. Duterloo 2011

Superimposition of cephalometric images is the universally used method for demonstrating and evaluating growth and treatment outcomes in the dentofacial complex in individual patients. However, traditional procedures for cephalometric superimposition are based on the use of posteroiately located landmarks or their dependant substitutes, which are unstable over time. This renders interpretation of pretreatment-to-posttreatment changes unreliable. The structural method of superimposition, developed and introduced by Arne Björk and based largely on longitudinal implant studies, is the only evidence-based method of superimposition, and it provides individualized, far-reaching insight into growth and treatment changes. Reliable measurement of local, actual changes in direction and amount is possible, allowing interpretation of the biologic events that took place. This book provides a critical, in-depth review of the history of cephalometric superimposition and the background and development of the structural method; demonstrates how to apply the structural method; and provides help and instruction for correct interpretation of the resulting superimpositions. Accurate cephalometric tracings and superimpositions represent the best way to demonstrate and evaluate changes resulting from dentofacial skeletal growth and treatment. This book will help readers to produce superimpositions with maximal accuracy, based on the best available scientific biologic evidence. --Publisher.

Craniofacial Development (Book for Windows & Macintosh)-Geoffrey H. Sperber 2001 The accompanying CD-ROM includes the complete text and illustrations from the print volume, as well as three-dimensional movies that show reconstructions of embryos.

Craniofacial 3D Imaging-Onur Kadioglu 2019-01-28 This book is designed to serve as an up-to-date reference on the use of cone-beam computed tomography for the purpose of 3D imaging of the craniofacial complex. The focus is in particular on the ways in which craniofacial 3D imaging changes how we think about conventional diagnosis and treatment planning and on its clinical applications within orthodontics and oral and maxillofacial surgery. Emphasis is placed on the value of 3D imaging in visualizing the limits of the alveolar bone, the airways, and the temporomandibular joints and the consequences for treatment planning and execution. The book will equip readers with the knowledge required in order to apply and interpret 3D imaging to the benefit of patients. All of the authors have been carefully selected on the basis of their expertise in the field. In describing current thinking on the merits of 3D craniofacial imaging, they draw both on the available scientific literature and on their own translational research findings.


The Human Face-Donald H. Enlow 1960

The Evolution of the Human Head-Daniel Lieberman 2011 Dan Lieberman has written an innovative, exhaustively researched and carefully argued book dealing with the evolution of the human head. In it he addresses three interrelated questions. First, why does the human head look the way it does? Second, why did these transformations occur? And third, how is something as complex and vital as the head so variable and evolvable? This book addresses these questions in three sections. The first set of chapters review how human and ape heads grow, both in terms of individual parts (organs and regions) and as an integrated whole. The second section reviews how the head performs its major functions: housing the brain, chewing, swallowing, breathing, vocalizing, thermoregulating, seeing, hearing, tasting, smelling, and balancing during locomotion. The final set of chapters review the fossil evidence for major transformations of the head during human evolution from the divergence of the human and ape lineages through the origins of Homo sapiens. These chapters use developmental and functional insights from the first two sections to speculate on the developmental and selective bases for these transformations.

Interceptive Orthodontics-Joseph Noar 2014-09-15 Identify problems and introduce solutions early for an ideal aesthetic result. Interceptive Orthodontics aims to guide the practitioner in the art of interceptive management of the developing dentition. The goal is to guide the permanent dentition into the line of the dental arches, avoiding complex orthodontic treatment for teeth displaced far from their ideal position, and thereby reducing orthodontic treatment time. This book covers growth of the jaws and tooth development, and explains the correct timing of interceptive measures, and discusses orthodontic management of craniofacial deformities. It includes special investigations and comprehensive management of the mixed dentition, taking into the issues of early crowding, impaction, supernumerary and supplemental teeth, dental arch expansion, space maintenance and space management. In line with best available evidence, it provides clear treatment objectives and detailed treatment planning advice. Practical, accessible and illustrated with a wealth of colour images, it is an ideal clinical companion for general dental practitioners, oral surgeons, paediatric dentists and orthodontists. It is also a valuable reference for all training grades.

Microbiology Essentials-Tammy McCormick 2012-07-11 REA's Essentials provide quick and easy access to critical information in a variety of different fields, ranging from the most basic to the most advanced. As its name implies, these concise, comprehensive study guides summarize the essentials of the field covered. Essentials are helpful when preparing for exams, doing homework and will remain a lasting reference source for students, teachers, and professionals. Microbiology includes the history of microbiology, equipment and techniques, diversity of microorganisms, genetics, metabolism, transport of molecules, role of microbes in disease, microbes in the environment, and microbes in industry.

Fundamentals of Craniofacial Growth-Andrew D. Dixon 2017-12-14 This book brings together in one volume selected important topics in craniofacial growth. Topics include: principles of skeletal growth; osteogenesis and its control; formation of the cranial base and craniofacial joints; prenatal development of the facial skeleton; growth of the mandible, nasomaxillary complex, orbit, cranial base, craniofacial cage, and craniofacial remodeling; muscles; soft tissues; and blood vessels. Fundamentals of Craniofacial Growth contains detailed illustrations and extensive reference lists. Independently authored chapters provide comprehensive reviews encompassing both contemporary and historical perspectives. In addition to medicine and dentistry, contributors provide expertise from such diverse backgrounds as anatomy, biology, biomatics, embryology, orthodontics, physical anthropology, and plastic and reconstructive surgery.

The Bioarchaeology of Artificial Cranial Modifications-Vera Tiesler 2013-10-16 The artificial shaping of the skull vault of infants expresses fundamental aspects of crafted beauty, of identity, status and gender in a way no other body practice does. Combining different sources of information, this volume contributes new interpretations on Mesoamerican head shaping traditions. Here, the head with its outer insignia was commonly used as a metaphor for designating the “self” and personhood and, as part of the body, served as a model for the indigenous universe. Analogously, the outer “looks” of the head and its anatomical constituents epitomized deeply embedded worldviews and longstanding traditions. It is in this sense that this book explores both the quotidian roles and long-standing ideological connotations of cranial head modifications in Mesoamerica and beyond, setting new standards in the discussion of the scope, caveats, and future directions involved in this study. The systematic examination of Mesoamerican skeletal series fosters an explained review of indigenous cultural history through the lens of emblematic head models with their nuanced undercurrents of religious identity and ethnicity, social organization and dynamic cultural shift. The embodied expressions of change are explored in different geographical settings and epochs, being most visible in the centuries surrounding the Maya collapse and following the cultural clash implied by the European conquest. These glimpses on the Mesoamerican past through head practices are novel, as is the general treatment of methodology and theoretical frames. Although it is anchored in physical anthropology and archaeology (specifically bioarchaeology), this volume also integrates knowledge derived from anatomy and human physiology, historical and iconographic sources, linguistics (polisemia) and ethnography. The scope of this work is rounded up by the transcription and interpretation of the many colonial eye witness accounts on indigenous head treatments in Mesoamerica and beyond.

Neanderthals Revisited-Katerina Harvati 2007-03-14 This volume presents the cutting-edge research of leading scientists, re-examining the major debates in Neandertal research with the use of innovative methods and exciting new theoretical approaches. Coverage includes the re-evaluation of Neandertal anatomy, inferred adaptations and habitual activities, developmental patterns, phylogenetic relationships, and the Neandertal extinction; new methods include computer tomography, 3D geometric morphometrics, ancient DNA and bioenergetics. The book offers fresh insight into both Neandertals and modern humans.
**Encyclopedia of Biometrics** - Stan Z. Li 2009-08-27 With an A–Z format, this encyclopedia provides easy access to relevant information on all aspects of biometrics. It features approximately 250 overview entries and 800 definitional entries. Each entry includes a definition, key words, list of synonyms, list of related entries, illustration(s), applications, and a bibliography. Most entries include useful literature references providing the reader with a portal to more detailed information.


**Orthodontic Management of the Developing Dentition** - Martyn T. Cobourne 2017-08-09 This multi-author clinical guide provides an evidence-based overview of orthodontic management during development of the dentition. It begins with an illustrated account of normal dental development and then covers the management of problems that are commonly seen during this process. These include acquired problems, such as caries, space loss and dental trauma, developmental anomalies, including variation in tooth number and eruption defects. In addition, detailed consideration is given to the interceptive management of class II and class III malocclusion and transverse discrepancies. There is an emphasis on evidence-based management of these developmental problems and each chapter is richly illustrated with clinical examples.

**Contemporary Orthodontics • E-Book** - William R. Proffit 2014-03-12 Now in full color, Contemporary Orthodontics, 5th Edition is a practical resource with a long tradition of excellence. Line drawings and more than 1,000 new color images illustrate concepts more clearly than ever. This book includes detailed information on diagnosis, treatment planning concepts, related problems or controversies, and current treatment procedures, including the role of orthodontics in comprehensive treatment of patients with multiple problems. Updated material on psychosocial problems in orthodontic treatment, oral function, and the relationship between injury and dental disease. Case studies throughout the text highlight the demand for orthodontic treatment, the etiology of orthodontic problems, and treatment planning for cleft lip and palate patients. NEW! Review of the contemporary applications of 3D imaging in both diagnosis and evaluation of treatment. NEW! Updated information on Temporary Anchorage Devices (TADs) and miniplates. NEW! The latest advances in the biology of orthodontic treatment, including new ways to accelerate orthodontic tooth movement and the continuing evolution of improved fixed appliances. NEW! Over 200 new figures to illustrate new concepts and procedures.

**Contemporary Oral and Maxillofacial Surgery - E-Book** - James R. Hupp 2013-03-19 A comprehensive guide to oral surgery procedures, Contemporary Oral and Maxillofacial Surgery, 6th Edition enhances your skills in evaluation, diagnosis, and patient management. Full-color photographs and drawings show how to perform basic surgical techniques, and an overview of more advanced surgical procedures includes guidelines on when to refer patients to specialists and how to provide supportive postoperative care. This edition also includes the latest developments in dental implants, instrumentation, and current technology. Written by well-known OMS educators James R. Hupp, Myron R. Tucker, and Edward Ellis III, this book is a valuable reference for any dental office. Complex Exodontia chapter describes techniques for surgical tooth extraction, including the principles of flap design, development, management, and suturing, as well as open extraction of single- and multi-rooted teeth, multiple extractions, and concomitant alveoloplasty. Management of Medical Emergencies chapter helps you prepare for, prevent, and manage the most common emergencies that may occur in the dental office setting. Management of Facial Fractures chapter outlines the fundamental principles for evaluation and treatment of the patient with facial trauma. Infection Control chapter describes proper cleaning and sterilization of office environment, working surfaces, armamentarium, and personnel to help you prevent the injuries and illnesses that result from improper sterilizing and disinfecting. Convenient appendices offer quick access to resources such as current price lists for key instruments, office record tips, sample drug schedules, examples of prescriptions, and consent forms. Updated content on implants, new instruments, and the latest technology help you treat your patients more effectively. Updated Implant Treatment information is divided into two new chapters, one on basic concepts and techniques for clinical situations where adequate bone and soft tissue exists and implants can be placed into a well-healed area of bone, and another chapter on more complex concepts focusing on cases that require immediate implant placement and cases where bone and soft tissue augmentation may be required. Updated Facial Cosmetic Surgery chapter is organized by nonsurgical and surgical procedures, covering popular procedures such as dermal fillers, botox, facial resurfacing, browlift and forehead procedures, blepharoplasty, rhinoplasty, and rhytidectomy. Updated content on implants, new instruments, and the latest technology help you treat your patients more effectively. Updated Correction of Dentofacial Deformities chapter includes new information on conventional treatment planning, image prediction, and 3D virtual computerized surgical planning. Updated Surgical Reconstruction of Defects of the Jaws chapter includes new information on Bone Morphogenetic Proteins (BMPs).