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Titolo	3D diagnosis and treatment planning in orthodontics : an atlas for the clinician // Jean-Marc Retrouvey, Mohamed-Nur Abdallah, editors
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Descrizione fisica	1 online resource (XIII, 322 p. 329 illus., 307 illus. in color.)
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Soggetti	Orthodontics - Diagnosis Three-dimensional imaging in medicine Orthodontics Ortodòncia Diagnòstic per la imatge Visualització tridimensional Llibres electrònics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Techniques Used in Orthodontic Diagnosis: Orthodontic Examination with Paperless Charting -- Dental Photography for Orthodontic Diagnosis -- 2D Radiographs for Growth Monitoring and Orthodontic Adjustment -- Cone Beam Imaging for Orthodontic Diagnosis -- Intra-Oral Scanning for Orthodontic Diagnosis -- TMD and Imaging Techniques applied in Orthodontic Diagnosis. Indications, Applications, and Planning Based on Imaging Techniques: Craniofacial Complex Reconstruction Using Fusion of Cone Beam and Intra-Oral Data -- 3D Occlusogram for Orthodontic Treatment Planning -- 3D Surgical Planning for Orthognathic Surgery -- 3D-Supported, Proactive Diagnosis, and Treatment Planning for Orthodontic Therapy -- 3D Treatment Simulations for Orthodontic and Orthognathic Surgery -- 3D Printing of Dental Casts -- Orthodontic Sleep Apnea Diagnosis.
Sommario/riassunto	This richly illustrated book is a wide-ranging guide to modern diagnostics and treatment planning in orthodontics, which are mandatory prior to the initiation of any type of comprehensive

treatment. The importance of three-dimensional (3D) imaging techniques has been increasingly recognized owing to the shortcomings of conventional two-dimensional imaging in some patients, such as those requiring complex adult treatment and those with temporomandibular joint dysfunctions or sleep disturbances. In the first part of this book, readers will find clear description and illustration of the diagnostic role of the latest 3D imaging techniques, including cone beam computed tomography, intra-oral scanning, and magnetic resonance imaging. The second part explains in detail the application of 3D techniques in treatment planning for orthodontic and orthognathic surgery. Guidance is also provided on the use of image fusion software for the purposes of accurate diagnosis and precise design of the most appropriate biomechanical approach in patients with malocclusions.
