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Autore	Field James <1979->
Titolo	Pre-clinical dental skills at a glance / / James Field
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Descrizione fisica	1 online resource (78 p.)
Collana	At a Glance (Dentistry)
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Pre-Clinical Dental Skills at a Glance; Contents; Preface; How to use your revision guide; About the companion website; Part 1 The clinical environment; 1 The clinical environment; Regulation; Personal protective equipment; Uniforms and appearance; Dental loupes; 2 Lifelong learning and reflection; Lifelong learning; Support for learning; Formats and subjects; Reflection; Reflection and professional development; 3 Simulator jaws; Obtaining and storing natural teeth; The importance of tooth morphology; Terminology; Identifying teeth; Important points for setting up and storing teeth Working within the simulator headAdvanced haptic systems; 4 Basic restorative equipment; Examination instruments; Restorative hand instruments; Handpieces and burs; Other equipment; 5 Handpiece maintenance and operation; Safe operation; Hand holds and finger rests; Checking the air rotor handpiece; Maintenance; Burs and uses; Part 2 Basic operative skills; 6 Posture and working with a dental mirror; Mirror work; General seating position; Fields of vision; Dynamics and working with your nurse; 7 Effective use of posterior matrices; Interproximal wedges; Matrix tips; Siqveland; Tofflemire Other systemsDismantling; 8 Controlling bur depth and angulation; First steps; Basic principles - undercut; Basic principles - cutting depth; Criteria for exercise; Practising with occlusal surfaces; 9 Investigating

and controlling the carious lesion; Basic principles; Conservative access; Efficient removal of enamel; Extension; Efficient removal of dentine; Depth; Form; Simulation exercises; 10 Posterior approximal preparations; Technique; Gain access to the caries; Resistance and retention form; Common pitfalls; Finishing the margins; Criteria for critical appraisal
11 Anterior approximal preparationsTechnique; Gain access to the caries; Resistance and retention form; Common pitfalls; Finishing the margins; Criteria for critical appraisal; 12 Accessing the pulp space; Clinical considerations; Pulp space anatomy; Aims; Technique; Common pitfalls; 13 Direct posterior restorations; Material choice; Instrumentation for amalgam; Instrumentation for composite; Common mistakes; 14 Replacing a cusp with a direct restoration; Preparation; Matrices; Technique for amalgam; Technique for composite; 15 Placing cervical restorations; Glass ionomer; Composite resin
Repeated restoration loss16 Restoring incisors; Achieving an optimal bond; Approximal restoration; Involving the incisal edge; Polishing and checking; Repairing existing restorations; Common problems; 17 Periodontal instrumentation; Hand instrumentation; Ultrasonic instrumentation; 18 Moisture control and dental dam; Standard aids; Dental dam; Dam clamps; Dental dam placement; Contraindications and alternatives; 19 Records for treatment planning; Study models; Inter-occlusal record; Articulation; Photos; Part 3 Core clinical skills; 20 Controlling cross-infection; Effective immunisation
Personal protective equipment

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Nota di contenuto	Imaging Marine Life; Contents; Preface; List of Contributors; Chapter 1 Under the Eye of Neptune: An Historical Perspective of Marine Creature Imagery; 1.1 Introduction; 1.2 Ancient Uses of the Oceans; 1.2.1 Seafarers; 1.2.2 The Mediterranean Sea: the cradle of marine biology; 1.2.2.1 Aristotle and Pliny the Elder, the Founding Fathers; 1.2.2.2 Understanding the Oceans; 1.3 From Neptune to Animalcules; 1.3.1 Age of European Discovery and Exploration; 1.3.2 Voyages of Exploration and finally Science; 1.3.3 A Glimpse at the Invisible; 1.4 The Birth of Oceanography (The Nineteenth Century) 1.4.1 Drawing the Jellyfish 1.4.2 The H.M.S. Challenger Expedition; 1.4.3 Stations and Institutions; 1.5 The Twentieth Century: Institutions and moving images; 1.5.1 New tools - new images:; 1.5.2 Jean Painleve; 1.5.3 The Writers and the Explorers; 1.5.4 The Future; 1.6 Time Line of Ocean Imagery; Further Reading; Basic Texts; Source Books; Ships and Expeditions; Institutions; Chapter 2 New Solutions in Underwater Imaging and Vision Systems; 2.1 Introduction; 2.2 Underwater Optical Image Formation; 2.3 Illumination Techniques; 2.3.1 Illumination Sources

2.3.2 Selection of the Light Source Position 2.3.3 Illuminating Systems; 2.4 Laser-Based Techniques; 2.4.1 Laser Range-Gating (LRG) Methods; 2.4.2 Laser Line Scan (LLS) Methods; 2.4.3 Scattered Light Rejection Using Modulation/Demodulation Techniques; 2.5 Underwater Imaging Infrastructures; 2.6 Image Improvement via Polarization; 2.6.1 Extended Range Using Polarization; 2.6.2 Housing; 2.6.3 Experimental Evaluation; 2.7 A Vision System for Underwater Applications; 2.7.1 The Fugu Vision System; 2.8 Conclusion; Acknowledgements; References; Chapter 3 Holographic Microscopy of Marine Organisms
3.1 Introduction 3.2 Advantages of Holographic Microscopy; 3.3 Past Attempts to Image Microplankton; 3.4 Point Source Digital In-Line Holographic Microscopy; 3.4.1 Instruments; 3.4.2 Image Reconstruction; 3.4.3 Image Examples; 3.4.4 Resolution; 3.4.5 Volume Imaging Challenges; 3.5 Future Outlook; References; Chapter 4 Confocal Laser Scanning Microscopy - Detailed Three-Dimensional Morphological Imaging of Marine Organisms; 4.1 Introduction; 4.2 Technical and Methodological Aspects of Confocal Laser Scanning Microscopy
4.3 Prerequisites for Generating High-Quality Confocal Laser Scanning Micrographs 4.4 Using Autofluorescences for Detailed Three-Dimensional Morphological Imaging; 4.5 Application of Fluorescence Dyes; 4.6 Surface Topography Analyses; 4.7 Future Perspectives; Acknowledgements; References; Chapter 5 Optical Projection Tomography; 5.1 Introduction; 5.2 What Is Optical Projection Tomography?; 5.2.1 Assembly of an OPT System; 5.2.1.1 Detection Unit; 5.2.1.2 Illumination Units; 5.2.1.3 Sample Manipulation Unit; 5.2.2 Illumination Sources; 5.2.3 System Capabilities and Limitations
5.3 Comparison with Other 3D Microscopy Techniques

Sommario/riassunto

Written by an international team of experts from the Tara Oceans Marine Biology Imaging Platform (TAOMI), this is the first and only compendium on marine imaging technologies, and includes all known underwater as well as on-land techniques. TAOMI is imaging the largest collection of marine organisms in recent history, ranging from viruses to corals, and is duplicated on land to perform high throughput confocal analysis of plankton, X-ray tomography as well as cryo-electron microscopy. This unique platform combines underwater imaging with cytometry, stereomicroscopy, fluorescence microscopy