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# Fundamentals Operative Dentistry Schwartz

This book describes the challenges  
that deep carious lesions pose for

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dental practitioners, including the risk of endodontic complications and the difficulty of restorative treatment, and identifies options for overcoming these challenges on the basis of the best available evidence. The opening chapter sets the scene by discussing

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pathophysiology, histopathology, clinical symptomatology, and treatment thresholds. The various treatment options are then systematically presented and reviewed, covering non-selective, stepwise, and selective carious tissue

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removal and restoration, sealing of lesions using resin sealants or crowns, and non-restorative management approaches. In each case the current evidence with respect to the treatment is carefully evaluated. Advantages and disadvantages are explained and

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recommendations made on when to use the treatment in question.

Illustrative clinical cases and treatment pathways for clinicians are included.

This book will be of value for all practitioners who treat dental caries and carious lesions, whether in the

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permanent or the primary dentition. It will also be of interest to under- and postgraduate students in cariology and restorative, operative, preventive, and pediatric dentistry. This book provides information to the readers starting with the history of

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oral hygiene manners, and modern oral hygiene practices. It continues with the prevalence and etiology of caries and remedy of caries through natural sources. Etiology of secondary caries in prosthetic restorations and the relationship between orthodontic

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treatment and caries is addressed. An update of early childhood caries is presented. The use of visual-tactile method, radiography and fluorescence in caries detection is given. The book finishes with methods used for the prevention of



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white spot lesions and management of caries.

This book provides the theoretical knowledge required by students when learning how to diagnose oral diseases, plan treatment, and perform various types of dental restoration. It

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is also useful for clinicians wishing to update their treatment skills and broaden their understanding operative dentistry. Adopting an evidence-based approach, and in accordance with the philosophy of minimally invasive dentistry, it

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explains in detail the use of both classic and new restorative materials in various clinical situations. It also discusses the principles of smile analysis, as well the technique for esthetic composite restorations on posterior and anterior teeth, including

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direct and indirect veneers. In addition to richly illustrated, step-by-step descriptions of procedures, it offers essential information on basic topics, such as dental instruments and equipment, nomenclature and general principles of tooth preparation,

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isolation of the operating field, matrix and wedge systems, light curing, and pulpal protection. Furthermore it addresses the diagnosis of dental caries and tooth sensitivity of non-carious origin, like dentin hypersensitivity, dental erosion and

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cracked tooth syndrome, together with their treatment options. Also explaining the fundamental ergonomic principles of clinical practice, the book enables undergraduate students to embark on a successful professional career.

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In recent years there has been a tremendous growth in the use of vibrational spectroscopic methods for diagnosis and screening. These applications range from diagnosis of disease states in humans, such as cancer, to rapid identification and

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screening of microorganisms. The growth in such types of studies has been possible thanks to advances in instrumentation and associated computational and mathematical tools for data processing and analysis. This volume of *Advances in*



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Biomedical Spectroscopy contains chapters from leading experts who discuss the latest advances in the application of Fourier transform infrared (FTIR), Near infrared (NIR), Terahertz and Raman spectroscopy for diagnosis and screening in fields

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ranging from medicine, dentistry, forensics and aquatic science. Many of the chapters provide information on sample preparation, data acquisition and data interpretation that would be particularly valuable for new users of these techniques

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including established scientists and graduate students in both academia and industry.

Textbook of Geriatric Dentistry  
Advanced Dental Biomaterials  
Essentials of Operative Dentistry  
Lasers in Restorative Dentistry

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## Fundamentals of Operative Dentistry Esthetics in Dentistry

"Drawing from both theory and practice and supported by extensive clinical and laboratory research, Sturdevant's Art and Science of Operative Dentistry,

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6th edition presents a clearly detailed, heavily illustrated step-by-step approach to conservative restorative and preventive dentistry. It's a complete guide to all aspects of operative dentistry, including

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fundamentals, diagnosis, instrumentation, preparation, restoration, and prevention."--Publisher.

This book contains nearly 1200 illustrations that explain the basics and nuances of operative

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dentistry, enabling trainees to easily grasp key essential concepts. Through a unique management options section it guides students through the various instruments required for clinical practice. A DVD

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demonstrating some of the practical aspects of Operative Dentistry is included.

This new edition is a complete guide to operative dentistry. Beginning with an introduction, physiology, dental caries and



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tooth preparation, the text also discusses pain and infection control. The following sections examine different operative procedures. New techniques such as minimal intervention dentistry, nanotechnology and

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lasers; and advances in dental materials are discussed in detail. More than 1200 colour images, illustrations, flow charts and tables are included. Key points Complete guide to operative dentistry Discusses numerous

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different procedures, and pain and infection control New techniques and advances in materials described in detail More than 1200 colour images, illustrations, flow charts and tables Previous edition

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published in 2010

The book introduces the latest advances in dental materials and biomaterials science. It contains a comprehensive introduction and covers ceramic, metallic, and polymeric oral biomaterials.

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The contributing authors are from all over the world and are distinguished in their disciplines. A solid primer for dental students, the book is also highly recommended for students of engineering and basic science

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who want to gain an insight in contemporary biomaterials science. For medical practitioners, the book offers an invaluable opportunity to learn about the latest steps in dental biomaterials.

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Best Practices in Dentistry

Modern Operative Dentistry

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*Concise Conservative dentistry and Endodontics is a comprehensive books covering the entire syllabus prescribed by Dental Council of India (DCI). It is written in easy to*



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*understand format which is enriched with numerous line diagrams, tables and highlighted text for conservative dentistry and endodontics. Contains 49 chapters under 2 sections*

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*covering basic topics,  
specialized materials and  
techniques used in  
Conservative dentistry and  
Endodontics Includes latest  
topics like Minimal  
Interventional dentistry and*

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*bank is provided in the end to  
prepare students for various  
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*Complications from dental  
procedures are inevitable and  
encountered by all dental  
professionals. Avoiding and*

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*about other biomaterials or applications that may be applicable to their current research or as a guide for a new entrant into the field who needs to gain an understanding of the primary*



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*challenges, opportunities,  
most relevant biomaterials,  
and key applications in  
dentistry. Provides a  
comprehensive review of the  
materials science, engineering  
principles and recent advances*

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the fundamentals of dental  
biomaterials and examines  
advanced materials'  
applications for tissues  
regeneration and clinical  
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*international collaborative  
team of materials scientists,  
biomedical engineers, oral  
biologists and dental clinicians  
in order to provide a balanced  
perspective on the field*  
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and are useful throughout  
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*Trauma at a Glance is a practical reference that contains essential information on the safe and effective clinical management of acute adult dental trauma injuries. The book addresses the*

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*numerous types of adult dental injuries and contains guidance on how the correct identification and treatment of these injuries can be time sensitive. Filled with helpful illustrations and photographs,*



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their healing and an insight  
into their longer-term sequelae  
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*Contemporary Esthetic  
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This book is a well-illustrated and comprehensive guide to the etiology, clinical manifestations, diagnosis, clinical management

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and prevention of dental caries. Current challenging problems in the field are analyzed and the latest research findings, presented. After an introductory chapter on tooth development, the relationships of biofilm and saliva



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to dental caries and the significance of the balance between demineralization and remineralization for the development of carious lesions are discussed. Subsequent chapters address the state of the art in

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diagnosis and treatment, the implications of disease burden for prevention and the association between systemic diseases and dental caries. Dental Caries: Principles and Management is intended for dental school

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students, practicing dentists and researchers in dentistry.

Guiding patient behavior is as important as ever for the practicing dentist, and the behavior of pediatric patients is perhaps the most challenging to

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manage. Drs. Wright and Kupietzky here update Dr. Wright's classic work on managing pediatric dental patients. Behavior Management in Dentistry for Children, 2nd Edition, has been entirely rewritten and includes the

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latest and most effective management strategies from an international team of experts in the field. The book addresses the influence of family and parenting styles on children's behavior and the factors that determine how

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children behave in the dental office. Pharmacological and non-pharmacological management techniques are described in depth, as are techniques for dealing with special needs patients. Clinical scenarios are described

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throughout the book, with practical application of the taught principles. The final part of the book covers the dental environment—training office personnel to manage children's behavior, practical considerations

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for behavior guidance, and the effects of the physical dental office environment. Behavior Management in Dentistry for Children, 2nd Edition, is ideal for pediatric residents, dental students, and practicing dentists



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who see children on a regular basis.

Preceded by Fundamentals of operative dentistry / edited by James B. Summitt ... [et al.]. 3rd ed. c2006.

Focusing on the management of

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caries as a disease and the restoration of individual teeth, the 20 chapters in this textbook describe direct conservative fillings fabricated from dental amalgam, resin composite, and resin-ionomer materials, and

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techniques for partial-and  
complete-coverage indirect  
restorations of gold alloy,  
porcelain, metal-ceramic  
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Imaging, Testing and Modelling  
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*As esthetic dentistry continues to grow  
in popularity, dentists are offered an  
opportunity to expand their practices*

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*and attract new patients. Esthetic Dentistry in Clinical Practice provides dentists with the skills to take advantage of that opportunity. Clearly outlining esthetic procedures, the book enables dentists to treat patients in an efficient and clinically sound manner,*

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*bringing esthetic dentistry to everyday practice.*

*Lasers have become an increasingly useful tool in conventional dental practice. Their precision and less invasive quality make them an attractive technology in esthetic and*

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*providing the reader a thorough understanding of how lasers work and their varied effects on oral tissues. Subsequent chapters are organized by procedure type, illustrating common clinical techniques with step-by-step illustrations and case examples. In*



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*advances in clinical application from  
experts worldwide Includes multiple  
case examples to further illustrate  
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10.3 Non-vital Bleaching (Video) --  
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Aesthetic Zone -- 11.1 Pre-operative  
Evaluation (Video) -- Principles --  
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-- Procedures -- Tips -- References --  
Further Reading -- 11.3 Impression*

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-- Procedures -- Tips -- References --  
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(Video) -- Principles -- Procedures --  
Tips -- References -- Index -- EULA*

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*principles with unparalleled visual detail. This atlas-style resource guides you step-by-step through essential procedures and presents realistic case scenarios to help you deepen your understanding of restorative principles and successfully apply your knowledge*



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*to clarify techniques and help you confidently apply concepts in the clinical setting. Summary boxes provide fast access to key chapter content. Clinical approach reflects the trusted expertise of the Accademia Italiana di Conservativa (Italian*

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***Covering both popular and  
advanced cosmetic***

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***procedures, Contemporary  
Esthetic Dentistry enhances  
your skills in the dental  
treatments leading to  
esthetically pleasing  
restorations. With over 1,600  
full-color illustrations, this  
definitive reference discusses***

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***the importance of cariology and caries management, then covers essential topics such as ultraconservative dentistry, color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and***

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***polishing. Popular esthetic treatment options are described in detail, including bleaching or tooth whitening, direct and porcelain veneers, and esthetic inlays and onlays. Coverage of advanced cosmetic procedures includes***

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***implants, perioesthetics,  
ortho-esthetics, and pediatric  
esthetics, providing a solid  
understanding of treatments  
that are less common but can  
impact patient outcomes.  
Developed by Dr. George A.  
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***in the field, Contemporary  
Esthetic Dentistry also allows  
you to earn Continuing  
Education credits as you  
improve your knowledge and  
skills. Continuing Education  
credits are available, allowing  
you to earn one to two CE***

***credits per chapter. Detailed coverage of popular esthetic procedures includes bleaching, direct and porcelain veneers, inlays and onlays, posts and cores, porcelain-fused-to-metal restorations, zirconium***

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***crowns and bridges, and complete dentures. Coverage of advanced procedures includes implants, perioesthetics, orthoesthetics, pediatric esthetics, and sleep-disordered breathing, providing a solid***

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***understanding of less-frequently encountered topics that impact the esthetic treatment plan and outcomes. Coverage of key esthetic dentistry topics and fundamental skills includes cariology and caries***

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***management, understanding dental materials, photography, understanding and manipulating of color and shade, adhesive techniques, anterior and posterior direct composites, and finishing and polishing. Over 1,600 full-***

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***color photos and illustrations help to clarify important concepts and techniques, and show treatments from beginning of the case to the final esthetic results. Well-known and respected lead author George A. Freedman is***

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***a recognized author,  
educator, and speaker, and  
past president of the  
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founder of the Canadian  
Academy for Esthetic  
Dentistry. Expert contributors***

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***are leading educators and practicing clinicians, including names such as Irvin Smigel (the father of esthetic dentistry), Chuck N. Maragos (the father of contemporary diagnostics), Wayne Halstrom (a pioneer in the area of***



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***dental sleep medicine), David Clark (one of the pioneers of the microscope in restorative dentistry and founder the Academy of Microscope Enhanced Dentistry), Edward Lynch (elected the most influential person in UK***

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***Dentistry in 2010 by his peers), Joseph Massad (creator, producer, director, and moderator of two of the most popular teaching videos on the subject of removable prosthodontics), Simon McDonald (founder and CEO***

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***of Triodent Ltd, an international dental manufacturing and innovations company), and many more!***

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***considered for individual teeth, missing teeth, malocclusions or facial appearance. This volume discusses different situations as to its advantages and disadvantages, as well as its indications and limitations. It***

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***also discusses alternatives to treatment.***

***Dental Biomaterials: Imaging, Testing and Modelling reviews the materials used in this important area, their performance and how such performance can be measured***

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***and optimised. Chapters review optical and electron microscopy imaging techniques for dental biomaterial interfaces. Specific materials such as dental cements, fibre-reinforced composites, metals***

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***and alloys are discussed. There is an analysis of stresses, fracture, wear and ageing in dental biomaterials as well as an evaluation of the performance of dental adhesives and resin-dentin bonds. Chapters also review***

***ways of assessing the performance of dental handpieces, crowns, implants and prostheses. The book also reviews the use of computer models in such areas as bond strength and shape optimisation of dental***



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***restorations. With its distinguished editors and team of experienced contributors DDental Biomaterials: Imaging, Testing and Modelling researchers, materials scientists, engineers and***

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***dental practitioners with an essential guide to the use and performance of dental biomaterials. An essential guide to the use and performance of dental biomaterials Reviews optical and electron microscopy***

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***imaging techniques for dental biomaterial interfaces***

***Analyses stresses, fracture, wear and ageing in dental biomaterials and evaluates the performance of dental adhesives and resin-dentin bonds***

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***Combining the approaches of preventative and restorative dentistry, this is a revised and updated guide to the clinical techniques and procedures necessary for managing tooth disorders and disease. Introduces minimally***

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***invasive dentistry as a model to control dental disease and then restore the mouth to optimal form, function, and aesthetics Contains several student-friendly features, including a new layout, line drawings and clinical***

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***photographs to illustrate key concepts Covers fundamental topics, including the evolutionary biology of the human oral environment; caries management and risk assessment; remineralization; principles of cavity design;***

*Page 110/160*

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***lifestyle factors; choices  
between restorative materials  
and restoration management  
Includes a companion website  
with self-assessment  
exercises for students and a  
downloadable image bank for  
instructors***

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***Principles for Clinical Practice  
Summitt's Fundamentals of  
Operative Dentistry  
Handbook of Oral  
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Fundamentals of Implant  
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Textbook of Operative***

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***Dental Trauma at a Glance***

*This title has been authored by practitioners working in the UK and is a concise textbook of restorative dentistry for the dental student. Illustrated in color*

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*throughout, the book covers the specialties of restorative dentistry - operative dentistry, endodontics, periodontics and prosthetic dentistry - in a single volume.*

*Treatment planning section demonstrates the integration of the*

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*main constituent specialties in the treatment of patients with multiple problems. Realistic case studies illustrate useful day-to-day practice. High quality colour illustration throughout with free use of key point boxes and tables.*

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*New chapters on cariology and on immediate and complete dentures  
Occlusion chapter completely rewritten and simplified Expanded patient examination chapter New sections at the end of each chapter covering more advanced techniques*

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*Hauptbeschreibung Distinguished by the authors' strong commitment to conservative dentistry, this revised textbook combines proven methods with the latest scientific developments in preventive and restorative dentistry. Chapters on*

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*enamel and dentin adhesion and on resin composite restorations have been substantially revised to incorporate the latest evidence, and updated reference lists promote further study into the most recent evidence-based research. Current*

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*concepts in caries management and remineralization are discussed, as is preservation of pulpal health.*

*Students, educators, and practi.*

*1. Evolution of Dentin-Resin*

*Bonding. -- 2. Properties of Dentin.*

*-- 3. Acidic Conditioning and*

*Hybridization of Substrates. -- 4. Characterization of the Hybrid Layer. -- 5. The Quality of the Hybridized Dentin. -- 6. Clinical Applications of Hybrid Layer Formation.*

*This is a revised and updated A to Z*



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*guide to pediatric dentistry that defines the different management requirements of children at different stages of development. Material is presented within the context of four developmental stages: conception to age three,*

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*primary dentition years -- age three to six, transitional years from six to twelve, and adolescence. This 3rd Edition features three new sections covering dentistry for the child with special circumstances, understanding risk analysis as it*

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*effects diagnosis and treatment planning, and anticipatory guidance. Divides coverage into four sections that correspond to developmental age groups: birth to age 3, ages 3 to 6, ages 6 to 12 and adolescence. Describes prevention,*

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*diagnosis and treatment for each group, as well as the physical, cognitive, emotional and social changes that affect dental care.*

*Presents a brand-new chapter on Dental Public Health Issues in Pediatric Dentistry (Ch. 11) New*

*Chapter on the Acid Etch  
Technique and Caries Prevention  
(Ch. 32) Offers many new and  
revised commentary boxes in which  
leading specialists, many new to  
this edition, discuss specific  
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*A Practical Guide*

*Sturdevant's Art and Science of  
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*A work on operative dentistry*

*Hybridization of Dental Hard  
Tissues*

*Preservation and Restoration of*

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***Tooth Structure***

***Diagnosis, Prevention and  
Management***

The practice of fixed  
prosthodontics has  
undergone many changes in  
recent times with

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significant developments in dental materials and principles of adhesion. However, tooth preparation is still guided by the need to preserve tooth tissue, generate space for



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restorative material and reshape the tooth to a cylindrical form with a defined finish line. This book carries these principles as a common theme and delineates the

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stages of prosthesis  
construction.

Digital Workflow in  
Reconstructive Dentistry  
is the result of efforts  
made by the academic team  
at the Department of

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Prosthodontics, University  
Hospital of Freiburg. It  
aims to build a  
fundamental understanding  
of the general principles,  
science, and clinics of  
digital dental medicine.

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The information provided within these pages summarizes the various components of the digital workflow in reconstructive dentistry and discusses their advantages and

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disadvantages. Moreover, insights are provided about upcoming, game-changing technologies. By reading this book, students, clinicians, and researchers will gain and

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enhance their knowledge about digital dental medicine and identify the areas they need to focus on next in order to integrate the available technologies in their

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daily work. Clearly, the path of digital dental medicine will not stop here. Contributors Amirah M. R. Alammam • Abdulaziz Alsahaf • Wael Att • Maria Bateli • Jasmin Bernhart •

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treatment of gait problems in cerebral palsy, this comprehensive, multi-disciplinary volume will be invaluable for all those working in the field of cerebral palsy and gait

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(neurologists, therapists, physiatrists, orthopaedic and neurosurgeons, and bioengineers). The book is divided into two parts. The first is designed to help the reader evaluate

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and understand a child with cerebral palsy. It deals with neurological control, musculoskeletal growth, and normal gait, as well as cerebral injury, growth deformities

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and gait pathology in children with cerebral palsy. The second section is a comprehensive overview of management. It emphasizes the most fundamental concept of

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treatment: manage the child's neurologic dysfunction first and then address the skeletal and muscular consequences of that dysfunction. The book has been thoroughly

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updated since the previous edition, with a greater focus on treatment and several entirely new topics covered, including chapters on the operative treatment of orthopaedic

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deformities. The book is accompanied by a DVD containing a teaching video on normal gait and a CD-ROM containing the videos and motion analysis data of all case examples

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used in the book, as well as teaching videos demonstrating the specifics of many of the procedures used in the correction of gait deformities and gait



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modelling examples from  
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Reconstructive Dentistry

Guide for Clinical

Practice

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A Desk Reference

*This book presents the state of the art in the*

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*use of laser in restorative dentistry. After discussion of relevant background, basic physics and laser types, the full range of clinical applications is covered with the aid of more than 600 clinical photographs, charts, and tables. In addition to conventional indications, newer operative procedures that reliably yield favorable*

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*outcomes are carefully described step by step. The authors' own research findings and clinical cases are included in the book, which also provides a complete, up-to-date review of the international literature on laser adhesive dentistry. Lasers in Restorative Dentistry will be a valuable guide for general dentists who use the laser*

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*in their daily practice and are seeking advice on how to improve the quality of their work. If you are a new, experienced, or even advanced laser user, this book will be an exceptionally useful resource. Enjoy delving into the wonderful world of laser dentistry!*

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*and review and checkpoint questions  
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