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parts (General Classes and Properties of Dental Materials; Auxiliary Dental Materials; Direct Restorative Materials; and Indirect Restorative Materials) presents the material in a logical and effective way for better comprehension and readability. Balance between materials science and manipulation bridges the gap of knowledge between dentists and lab technicians. Major emphasis on biocompatibility serves as a useful guide for clinicians and educators on material safety. Distinguished contributor pool lends credibility and experience to each topic discussed. Critical thinking questions appearing in boxes throughout each chapter stimulate thinking and encourage classroom discussion of key concepts and

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restoration of teeth are presented, along with case examples and guidance notes making this book an essential companion for materials scientists and clinicians. Provides comprehensive coverage of conventional and modern materials for direct restoration of teeth Includes guidance notes and case examples to support dental clinicians in decision-making Authored by a scientist and a clinician, the book provides a balanced and complete treatise of the subject

Advanced Dental Biomaterials is an invaluable reference for researchers and clinicians within the biomedical industry and academia. The book can be used

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by both an experienced researcher/clinician learning 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 challenges, opportunities, most relevant biomaterials, and key applications in dentistry. Provides a comprehensive review of the materials science, engineering principles and recent advances in dental biomaterials Reviews the fundamentals of dental biomaterials and examines advanced materials ' applications for tissues regeneration and clinical dentistry Written by an international collaborative team of materials scientists, biomedical

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engineers, oral biologists and dental clinicians in order to provide a balanced perspective on the field

With this hands-on resource, you will learn the most current methods of placing -- or assisting in the placement -- of dental materials, and how to instruct patients in their maintenance. Dental Materials uses step-by-step procedures to show how to mix, use, and apply dental materials within the context of the patient ' s course of treatment. Expert authors Carol Hatrick, W. Stephan Eakle, and William F. Bird enhance this edition with four new chapters, along with coverage of newly approved materials and esthetic tools including the latest

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advances in bleaching and bonding.

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book illustrates important esthetic and restorative dental procedures as they are used in everyday clinical situations. It is designed to explain how a selected material and/or instrument can be used as part of a thorough protocol to achieve restorative excellence. With the scientific knowledge and clinical and laboratory expertise of an elect international editorial team, this book encompasses many facets of dentistry including biomaterials, dental technology, operative dentistry, prosthodontics, orthodontics, periodontics, and implant dentistry. Each chapter is divided into two parts. The first part consists of the latest evidence-based clinical concepts and biomaterials information related to the topic.

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