

<<Phillips牙科材料学>>

图书基本信息

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## 内容概要

The 11th edition of this leading reference is an outstanding, scientifically based source of information in the field of dental materials science. It presents up-to-date information on materials that are used in the dental office and laboratory every day, emphasizing practical, clinical use, as well as the physical, chemical, and biological properties of materials. Extensive new clinical photographs in this edition illustrate the topics, and color plates are integrated close to related concepts as they're discussed in each chapter. A new glossary of key terms found at the beginning of every chapter defines terms in the appropriate context of the chapter's discussion. Also in this edition, critical thinking questions throughout the book stimulate the readers' curiosity on specific topics, test their existing knowledge, and heighten their awareness of important or controversial subjects. Content outlines at the beginning of each chapter provide a quick reference for specific topics. The roles played by key organizations in ensuring the safety and efficacy of dental materials and devices are described - such as the American Dental Association, the U.S. Food and Drug Administration, the International Organization for Standardization, and the Fédération Dentaire Internationale. Up-to-date Selected Readings are presented at the end of each chapter to direct readers to supplemental literature on each topic. Numerous boxes and tables throughout summarize and illustrate key concepts and compare characteristics and properties of various dental materials. Distinguished contributors lend their credibility and experience to the text. Content has been completely updated to include information on the most current dental materials available. Glossaries at the beginning of each chapter define key terms used within the context of that chapter. Revised artwork gives this edition a fresh look, with high-quality illustrations and clinical photos to aid in the visualization of materials and procedures described. Reorganization and consolidation of chapters into four major book parts presents the material in a more efficient way: Part I describes the principles of materials science that control the performance of dental materials in dental laboratories, research laboratories, student dental clinics, public health clinics, and private practice clinics. Part II focuses on impression materials, gypsum products, dental waxes, casting investments and procedures, and finishing and polishing abrasives and procedures. Part III provides an updated scientific and applied description of the composition, manipulation principles, properties, and clinical performance of bonded restorations, restorative resins, dental cements, dental amalgams, and direct-filling golds. Part IV presents a basic and applied description of materials that are processed in a laboratory or dental clinic. Critical thinking questions appear in every chapter to stimulate thinking and classroom discussion. The overall design has been improved to provide a more visually appealing format.

书籍目录

PART GENERAL CLASSES AND PROPERTIES OF DENTAL MATERIALS 1 Overview of Materials for Dental Applications What Are Dental Materials? Historical Use of Restorative Materials Standards for Dental Materials ADA Acceptance Program The ADA Seal of Acceptance Classification of Products Evaluated by the ADA Council on Scientific Affairs General Provisions for ADA Acceptance Composition, Nature, and Function Required Information Information Required for Renewal of Acceptance U.S. Food and Drug Administration Regulations International Standards ISO Standards, Subcommittees, and Working Groups ISO Technical Committee 106 How Are ISO Standards Developed? Other Dental Standards Organizations How Safe Are Dental Restorative Materials? 2 Structure of Matter and Principles of Adhesion Change of State Interatomic Primary Bonds Ionic Bonds Covalent Bonds Metallic Bonds Interatomic Secondary Bonds Hydrogen Bonding Van der Waals Forces Interatomic Bond Distance and Bonding Energy Bond Distance Bonding Energy Thermal Energy Crystalline Structure Noncrystalline Solids and Their Structures Diffusion Adhesion and Bonding Mechanical Bonding Surface Energy Wetting Contact Angle of Wetting Adhesion to Tooth Structure 3 Physical Properties of Dental Materials What Are Physical Properties? Abrasion and Abrasion Resistance Viscosity Structural and Stress Relaxation Creep and Flow Color and Color Perception Three Dimensions of Color Thermophysical Properties Thermal Conductivity Thermal Diffusivity Coefficient of Thermal Expansion Introduction to Tarnish and Corrosion Causes of Tarnish and Corrosion Classification of Corrosion Electrochemical Corrosion Dissimilar Metals Heterogeneous Surface Composition Stress Corrosion Concentration Cell Corrosion Protection Against Corrosion Corrosion of Dental Restorations Evaluation of Tarnish and Corrosion Resistance Clinical Significance of Galvanic Currents 4 Mechanical Properties of Dental Materials What Are Mechanical Properties.z Stresses and Strains .....PART AUXILIARY DENTAL MATERIALSPART DIRECT RESTORATIVE MATERIALSPART INDIRECT RESTORATIVE AND PROSTHETIC MATERIALSAppendixIndex

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