

Chapter 6 Chemistry Review

Offers information on test-taking strategies, sample questions and answers, and three full-length practice tests.

Kaplan's MCAT Organic Chemistry Review 2021–2022 offers an expert study plan, detailed subject review, and hundreds of online and in-book practice questions—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Prepping for the MCAT is a true challenge. Kaplan can be your partner along the way—offering guidance on where to focus your efforts and how to organize your review. This book has been updated to match the AAMC's guidelines precisely—no more worrying if your MCAT review is comprehensive! The Most Practice More than 350 questions in the book and access to even more online—more practice than any other MCAT organic chemistry book on the market. The Best Practice Comprehensive organic chemistry subject review is written by top-rated, award-winning Kaplan instructors. Full-color, 3-D illustrations from Scientific American, charts, graphs and diagrams help turn even the most complex science into easy-to-visualize concepts. All material is vetted by editors with advanced science degrees and by a medical doctor. Online resources, including a full-length practice test, help you practice in the same computer-based format you'll see on Test Day. Expert Guidance High-yield badges throughout the book identify the top 100 topics most-tested by the AAMC. We know the test: The Kaplan MCAT team has spent years studying every MCAT-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test.

Designed as a student text, Inorganic Chemistry focuses on teaching the underlying principles of inorganic chemistry in a modern and relevant way.

Studies in Natural Products Chemistry, Volume 60 covers the synthesis, testing and recording of the medicinal properties of natural products, providing cutting-edge accounts of fascinating developments in the isolation, structure elucidation, synthesis, biosynthesis and pharmacology of a diverse array of bioactive natural products. With the rapid developments in spectroscopic techniques and accompanying advances in high-throughput screening techniques, it has become possible to rapidly isolate and determine the structures and biological activity of natural products, thus opening up exciting opportunities in the field of new drug development in the pharmaceutical industry. Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

Kaplan's MCAT General Chemistry Review 2020-2021 is updated to reflect the latest, most accurate, and most testable materials on the MCAT. A new layout makes our book even more streamlined and intuitive for easier review. You'll get efficient strategies, detailed subject review, and hundreds of practice questions—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Efficient Strategies and In-Depth Review High Yield badges indicate the most testable content based on AAMC materials Concept summaries that boil down the need-to-know information in each chapter, including any necessary equations to memorize Chapter Profiles indicate the degree to which each chapter is tested and the testmaker content categories to which it aligns Charts, graphs, diagrams, and full-color, 3-D illustrations from Scientific American help turn even the most complex science into easy-to-visualize concepts Realistic Practice One-year online access to instructional videos, practice questions, and quizzes Hundreds of practice questions show you how to apply concepts and equations 15 multiple-choice "Test Your Knowledge" questions at the end of each chapter Learning objectives and concept checks ensure you're focusing on the most important information in each chapter Expert Guidance Sidebars illustrate connections between concepts and include references to more information, real-world tie ins, mnemonics, and MCAT-specific tips Comprehensive subject review written by top-rated, award-winning Kaplan instructors who guide you on where to focus your efforts and how to organize your review. All material is vetted by editors with advanced science degrees and by a medical doctor. We know the test: The Kaplan MCAT team has spent years studying every MCAT-related document available, and our experts ensure our practice questions and study materials are true to the test

Annual Review of Nano Research, Volume 3 focuses mainly on nanofabrication, nanomaterials and nanostructures, and energy application of nanomaterials. All the review chapters are contributed by well-published scientists and bring the most recent advancement in selected topics to the readers. This review volume will serve dual purposes: either as an excellent introduction to scientists whose expertise lie in different fields but who are interested in learning about nanotechnology, or as a quick reference for experts active in the field of nanoscience and nanotechnology. Sample Chapter(s). Chapter 1: Nanoscale Biosensors and Biochips (64 KB). Contents: Nanoscale Biosensors and Biochips (W R Leifert et al.); Surface Modifications and Applications of Magnetic and Selective Nonmagnetic Nanoparticles (R Shen & H Yang); Progress in Bionanocomposite Materials (E Ruiz-Hitzky et al.); Mesoporous Silica Nanoparticles: Synthesis and Applications (J L Vivero-Escoto et al.); Nanostructured Mesoporous Materials as Drug Delivery Systems (I Izquierdo-Barba et al.); Chemical Synthesis, Self-Assembly and Applications of Magnetic Nanoparticles (S Peng et al.); Recent Development and Applications of Nanoimprint Technology (X Cheng & L J Guo); Three-Dimensional Nanostructure Fabrication by Focused-Ion-Beam Chemical-Vapor-Deposition (S Matsui); Dye-Sensitized Solar Cells Based on Nanostructured Zinc Oxide (Q-F Zhang & G-Z Cao); Nanocomposites as High Efficiency Thermoelectric Materials (S J Thiagarajan et al.); Nanostructured Materials for Hydrogen Storage (S Sepehri & G-Z Cao); Recent Advances in the Characterization of Mesoporous Materials by Physical Adsorption (M Thommes). Readership: Research scientists and engineers in academia, research institutes and industry, as well as graduate students and upper-level undergraduate students in the physical sciences and engineering.

"In partnership with Scientific American"--Cover.

Reinforce your understanding of laboratory concepts, terminology, and procedures! Corresponding to the chapters in Laboratory Testing for Ambulatory Settings, 2nd Edition, by Marti Garrels and Carol S. Oatis, this workbook provides activities and exercises for additional practice with lab testing skills. Skill check-off sheets track your progress as you work through the competency-based procedures, and are designed to help you meet government standards for good laboratory practice. Chapter exercises help you master the content and the skills covered in the textbook. Skills checklists are included for each lab procedure. The appendix includes quality control log sheets, lab maintenance log sheets, report forms, and a sample health screening assessment form. Quality control Levy-Jennings charts have been added. Skill check-off sheets are included for five new procedures: Clinitek Analyzer Standard Hematocrit INRatio New A1c+ Ki+ iFOB method for fecal occult blood

The use of chemistry in archaeology can help archaeologists answer questions about the nature and origin of the many organic and inorganic finds recovered through excavation, providing valuable information about the social history of humankind. This textbook tackles the fundamental issues in chemical studies of archaeological materials. Examining the most widely used analytical techniques in archaeology, the third edition of this comprehensive textbook features a new chapter on proteomics, capturing significant developments in protein recognition for dating and characterisation. The textbook has been updated to encompass the latest developments in the field. The textbook explores several archaeological investigations in which chemistry has been employed in tracing the origins of or in studying artefacts, and includes chapters on obsidian, ceramics, glass, metals and resins. It is an essential companion to students in archaeological science and chemistry, as well as to archaeologists, and those involved in conserving human artefacts.

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The tetracyclic natural product ellipticine 1 (5,11-dimethyl-6H-pyrido[4,3-b]carbazole) was first isolated from the plant material of *Ochrosia elliptica* Labill in 1959. Woodward et al. reported the first synthesis of ellipticine later the same year, and this was followed by many different synthetic strategies in subsequent decades. Investigation of the biological activity of ellipticines uncovered potent anticancer properties, and several ellipticine derivatives have been the subject of clinical trials. The ellipticine family of compounds exert their biological activity via several modes of action, the most well-established of which are intercalation with DNA and topoisomerase II inhibition. In recent times, however, other modes of action have been discovered such as kinase inhibition, interaction with p53 transcription factor, biooxidation, and adduct formation. This opens up a new chapter in the bioactivity of the ellipticines and hence a comprehensive review of the synthesis and biology of ellipticines is timely. Early reviews of the synthesis of ellipticine were published by Sainsbury (1977), Hewlins et al. (1984), Gribble and Saulnier (1985), and Kansal et al. (1986). The biological activity of ellipticine has also been reviewed by Auclair (1987) and Garbett and Graves (2004). This review covers key features of the biological activity of ellipticine along with synthetic routes from 1986 onward. Zumdahl and DeCoste's best-selling *INTRODUCTORY CHEMISTRY: A FOUNDATION*, Ninth Edition, combines enhanced problem-solving structure with substantial pedagogy to enable students to become successful problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts starting with the basics and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of student's master chemical concepts and develop strong problem-solving skills. Focusing on conceptual learning, the book motivates students by connecting chemical principles to real-life experiences. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Green Organic Chemistry and Its Interdisciplinary Applications covers key developments in green chemistry and demonstrates to students that the developments were most often the result of innovative thinking. Using a set of selected experiments, all of which have been performed in the laboratory with undergraduate students, it demonstrates how to optimize and develop green experiments. The book dedicates each chapter to individual applications, such as Engineering The chemical industry The pharmaceutical industry Analytical chemistry Environmental chemistry Each chapter also poses questions at the end, with the answers included. By focusing on both the interdisciplinary applications of green chemistry and the innovative thinking that has produced new developments in the field, this book manages to present two key messages in a manner where they reinforce each other. It provides a single and concise reference for chemists, instructors, and students for learning about green organic chemistry and its great and ever-expanding number of applications.

This is the Student Study Guide and Solutions Manual to accompany *Organic Chemistry, 3e*. *Organic Chemistry, 3rd Edition* is not merely a compilation of principles, but rather, it is a disciplined method of thought and analysis. Success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Readers must learn to become proficient at approaching new situations methodically, based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing textbooks provide extensive coverage of, the principles, but there is far less emphasis on the skills needed to actually solve problems.

Index to Reviews, Symposia Volumes and Monographs in Organic Chemistry for the Period 1940-1960 presents a resume of published monographs, reviews, and symposia lectures in organic chemistry. The editors adopted the plan of listings by symposia volume or journal, backed up by the total subject and author indexes. In this way the user can readily locate a particular article through the author index or the subject index; or should he recall that an article appeared in a particular source, the chronological listing in that source can be scanned quickly. The Index gives a convenient overview of the accomplishments of organic chemists during this very prolific period of the growth of the field. Frequently, several articles on the same or similar subject appear, hence the historical perspective can be sensed by rapid evaluation of the reviews selected. This Index will be useful to research workers, teachers and students. It will also assist editors and authors to select specific areas which require critical review.

This book is an account of current developments in computational chemistry, a new multidisciplinary area of research. Experts in computational chemistry, the editors use and develop techniques for computer-assisted molecular design. The core of the text itself deals with techniques for computer-assisted molecular design. The book is suitable for both beginners and experts. In addition, protocols and software for molecular recognition and the relationship between structure and biological activity of drug molecules are discussed in detail. Each chapter includes a mini-tutorial, as well as discussion of advanced topics. Special Feature: The appendix to this book contains an extensive list of available software for molecular modeling.

A Simon & Schuster eBook. Simon & Schuster has a great book for every reader.

Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals. For over 35 years, this book has helped them master the chemistry skills they need to succeed. It provides them with clear and logical explanations of chemical concepts and problem solving. They'll learn how to apply concepts with the help of worked out examples. In addition, *Chemistry in Action* features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis.

How to Find Out in Chemistry: A Guide to Sources of Information indicates how to make the best possible use of the literature of chemistry. This book serves as a guide for outlining the careers available to qualified chemists and explaining how such qualifications can be obtained; assembling a library of chemistry books; describing some of the general standards on books, biographies, and theses; acquiring periodical publications; and abstracting journals. Other topics discussed include general and physical chemistry, analytical chemistry, organic and inorganic chemistry, and chemical technology. This publication is intended for undergraduates and technical college students conducting research on the implications of chemistry.

This book was created to help teachers as they instruct students through the Master's Class Chemistry course by Master Books. The teacher is one who guides students through the subject matter, helps each student stay on schedule and be organized, and is their source of accountability along the way. With that in mind, this guide provides additional help

through the laboratory exercises, as well as lessons, quizzes, and examinations that are provided along with the answers. The lessons in this study emphasize working through procedures and problem solving by learning patterns. The vocabulary is kept at the essential level. Practice exercises are given with their answers so that the patterns can be used in problem solving. These lessons and laboratory exercises are the result of over 30 years of teaching home school high school students and then working with them as they proceed through college. Guided labs are provided to enhance instruction of weekly lessons. There are many principles and truths given to us in Scripture by the God that created the universe and all of the laws by which it functions. It is important to see the hand of God and His principles and wisdom as it plays out in chemistry. This course integrates what God has told us in the context of this study. Features: Each suggested weekly schedule has five easy-to-manage lessons that combine reading and worksheets. Worksheets, quizzes, and tests are perforated and three-hole punched — materials are easy to tear out, hand out, grade, and store. Adjust the schedule and materials needed to best work within your educational program. Space is given for assignments dates. There is flexibility in scheduling. Adapt the days to your school schedule. Workflow: Students will read the pages in their book and then complete each section of the teacher guide. They should be encouraged to complete as many of the activities and projects as possible as well. Tests are given at regular intervals with space to record each grade. About the Author: DR. DENNIS ENGLIN earned his bachelor's from Westmont College, his master of science from California State University, and his EdD from the University of Southern California. He enjoys teaching animal biology, vertebrate biology, wildlife biology, organismic biology, and astronomy at The Master's University. His professional memberships include the Creation Research Society, the American Fisheries Association, Southern California Academy of Sciences, Yellowstone Association, and Au Sable Institute of Environmental Studies.

Essential strategies, practice, and review to ace the SAT Subject Test Chemistry. Getting into a top college has never been more difficult. Students need to distinguish themselves from the crowd, and scoring well on a SAT Subject Test gives students a competitive edge. Kaplan's SAT Subject Test: Chemistry is the most up-to-date guide on the market with complete coverage of both the content review and strategies students need for success on test day. Kaplan's SAT Subject Test: Chemistry features: * A full-length diagnostic test * Full-length practice tests * Focused chapter summaries, highlights, and quizzes * Detailed answer explanations * Proven score-raising strategies * End-of-chapter quizzes Kaplan is serious about raising students' scores—we guarantee students will get a higher score.

Reinforce your understanding of laboratory concepts, terminology, and procedures! Corresponding to the chapters in Laboratory and Diagnostic Testing in Ambulatory Care, 3rd Edition, by Marti Garrels, this workbook provides activities and exercises for additional practice with lab testing skills. Skills check-off sheets track your progress as you become competent with laboratory and diagnostic procedures, and are designed to help you meet government standards for good laboratory practice. Chapters are organized into five sections: 1) terminology exercises, 2) review questions for fundamental concepts, 3) procedures, 4) advanced concepts, and 5) check-off procedure sheets for all the procedures presented in the textbook chapter. Review exercises test your knowledge of terminology, with exercises challenging you to match vocabulary terms with their definitions and to identify common acronyms. Skills checklists ask you to read, perform, and check off each step on the sheet to track your progress as you perform the chapter's lab procedures and analytical tests. A useful appendix includes forms for documenting safety, quality assurance, and CLIA compliance. NEW practice exercises match the text with a focus on new technology and significant advances made in recent years, including the latest CLIA waived test methods. NEW Electrocardiography and Spirometry chapter includes review exercises, questions, and skills checklists for these diagnostic tests.

This book- Foundation Courses for JEE Chemistry (Class 9) will work as the ground on which students can build their JEE ambition. It provides those fundamental concepts that students miss or fail to understand till they reach Classes 11 and 12. This book will not only ground students well for engineering entrance examinations, but will also prepare them for school exams prior to their JEE.

A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test-takers depending on how much time they have left before taking the test

The review covers work published in the calendar year 2012. Novel reaction chemistry and new ring synthetic methods for azepines, benzoazepines, oxepines, thiepinines, diazepines, benzodiazepines, dioxepines, and dithiepinines are reviewed.

Learn the skills you need to succeed in your chemistry course with CHEMISTRY, Tenth Edition. This trusted text has helped generations of students learn to “think like chemists” and develop problem-solving skills needed to master even the most challenging problems. Clear explanations and interactive examples help you build confidence for the exams, so that you can study to understand rather than simply memorize. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

More people get into medical school with a Kaplan MCAT course than all major courses combined. Now the same results are available with Kaplan's MCAT General Chemistry Review. This book features thorough subject review, more questions than any competitor, and the highest-yield questions available. The commentary and instruction come directly from Kaplan MCAT experts and include targeted focus on the most-tested concepts plus more questions than any other guide. Kaplan's MCAT General Chemistry Review offers: UNPARALLELED MCAT KNOWLEDGE: The Kaplan MCAT team has spent years studying every document related to the MCAT available. In conjunction with our expert psychometricians, the Kaplan team is able to ensure the accuracy and realism of our practice materials. THOROUGH SUBJECT REVIEW: Written by top-rated, award-winning Kaplan instructors. All material has been vetted by editors with advanced science degrees and by a medical doctor. EXPANDED CONTENT THROUGHOUT: While the MCAT has continued to develop, this book has been updated continuously to match the AAMC's guidelines precisely—no more

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College Chemistry Multiple Choice Questions and Answers (MCQs): Quizzes & Practice Tests with Answer Key PDF, College Chemistry Worksheets & Quick Study Guide covers exam review worksheets to solve problems with 1400 solved MCQs. "College Chemistry MCQ" PDF with answers covers concepts, theory and analytical assessment tests. "College Chemistry Quiz" PDF book helps to practice test questions from exam prep notes. Chemistry study guide provides 1400 verbal, quantitative, and analytical reasoning solved past question papers MCQs. College Chemistry Multiple Choice Questions and Answers PDF download, a book covers solved quiz questions and answers on chapters: atomic structure, basic chemistry, chemical bonding: chemistry, experimental techniques, gases, liquids and solids worksheets for college and university revision guide. "College Chemistry Quiz Questions and Answers" PDF download with free sample test covers beginner's questions and mock tests with exam workbook answer key. College chemistry MCQs book, a quick study guide from textbooks and lecture notes provides exam practice tests. "College Chemistry Worksheets" PDF book with answers covers problem solving in self-assessment workbook from chemistry textbooks with past papers worksheets as: Worksheet 1: Atomic Structure MCQs Worksheet 2: Basic Chemistry MCQs Worksheet 3: Chemical Bonding MCQs Worksheet 4: Experimental Techniques MCQs Worksheet 5: Gases MCQs Worksheet 6: Liquids and Solids MCQs Practice test Atomic Structure MCQ PDF with answers to solve MCQ questions: Atoms, atomic spectrum, atomic absorption spectrum, atomic emission spectrum, molecules, azimuthal quantum number, Bohr's model, Bohr's atomic model defects, charge to mass ratio of electron, discovery of electron, discovery of neutron, discovery of proton, dual nature of matter, electron charge, electron distribution, electron radius and energy derivation, electron velocity, electronic configuration of elements, energy of revolving electron, fundamental particles, Heisenberg's uncertainty principle, hydrogen spectrum, magnetic quantum number, mass of electron, metallic crystals properties, Moseley law, neutron properties, orbital concept, photons wave number, Planck's quantum theory, properties of cathode rays, properties of positive rays, quantum numbers, quantum theory, Rutherford model of atom, shapes of orbitals, spin quantum number, what is spectrum, x rays, and atomic number. Practice test Basic Chemistry MCQ PDF with answers to solve MCQ questions: Basic chemistry, atomic mass, atoms, molecules, Avogadro's law, combustion analysis, empirical formula, isotopes, mass spectrometer, molar volume, molecular ions, moles, positive and negative ions, relative abundance, spectrometer, and stoichiometry. Practice test Chemical Bonding MCQ PDF with answers to solve MCQ questions: Chemical bonding, chemical combinations, atomic radii, atomic radius periodic table, atomic, ionic and covalent radii, atoms and molecules, bond formation, covalent radius, electron affinity, electronegativity, electronegativity periodic table, higher ionization energies, ionic radius, ionization energies, ionization energy periodic table, Lewis concept, and modern periodic table. Practice test Experimental Techniques MCQ PDF with answers to solve MCQ questions: Experimental techniques, chromatography, crystallization, filter paper filtration, filtration crucibles, solvent extraction, and sublimation. Practice test Gases MCQ PDF with answers to solve MCQ questions: Gas laws, gas properties, kinetic molecular theory of gases, ideal gas constant, ideal gas density, liquefaction of gases, absolute zero derivation, applications of Daltons law, Avogadro's law, Boyle's law, Charles law, Daltons law, diffusion and effusion, Graham's law of diffusion, ideality deviations, kinetic interpretation of temperature, liquids properties, non-ideal behavior of gases, partial pressure calculations, plasma state, pressure units, solid's properties, states of matter, thermometry scales, and van der Waals equation. Practice test Liquids and Solids MCQ PDF with answers to solve MCQ questions: Liquid crystals, types of solids, classification of solids, comparison in solids, covalent solids, properties of crystalline solids, Avogadro number determination, boiling point, external pressure, boiling points, crystal lattice, crystals and classification, cubic close packing, diamond structure, dipole-dipole forces, dipole induced dipole forces, dynamic equilibrium, energy changes, intermolecular attractions, hexagonal close packing, hydrogen bonding, intermolecular forces, London dispersion forces, metallic crystals properties, metallic solids, metal's structure, molecular solids, phase changes energies, properties of covalent crystals, solid iodine structure, unit cell, and vapor pressure.

Packed with the information, examples and problems you need to learn to think like a chemist, **CHEMISTRY: AN ATOMS FIRST APPROACH**, Third Edition is designed to help you become an independent problem-solver. The text begins with coverage of the atom and proceeds through the concept of molecules, structure and bonding. This approach, different from your high school course, will help you become an adept critical thinker and a strong problem-solver -- skills that will be useful to you in any career. **Important Notice:** Media content referenced within the product description or the product text may not be available in the ebook version.

This book contains six chapters, each of which is a self-contained, thorough review by an expert in the field of a particular topic in medicinal chemistry, bacteriology or pharmacology. Each topic is a currently active subject of research in either the quest for new drugs or a better understanding of the role of known biochemical phenomena. In addition, all of the chapters contain an extensive list of relevant reference books, papers and other publications. The book will be of great interest to medicinal and pharmaceutical chemists, and will serve as a valuable source of reference.

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This interdisciplinary and accessible new volume presents a broad range of application-based green chemistry and

engineering research. The book familiarizes readers with the integration of tools and spell out the approaches for green engineering of new processes as well as improving the environmental risks of existing processes. The expert authors discuss the myriad opportunities and the challenges facing green chemistry today in both its theoretical and practical implementation. The book expands upon green chemistry concepts with the latest research and new and innovative applications, providing both the breadth and depth researchers need. Topics include solar energy, electrospinning of bio-based polymeric nanofibers, biotransformation, engineered nanomaterials in environmental protection, and much more. The Eighth Edition of Zumdahl and DeCoste's best-selling **INTRODUCTORY CHEMISTRY: A FOUNDATION** that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised end-of-chapter questions. The book's unsurpassed teaching and learning resources include a robust technology package that now offers a choice between OWL: Online Web Learning and Enhanced WebAssign. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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