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Clinical Biochemistry of Domestic Animals, Second Edition, Volume I, is a major revision of the first edition prompted by the marked expansion of knowledge in the clinical biochemistry of animals.

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In keeping with this expansion of knowledge, this edition is comprised of two volumes. Chapters on the pancreas, thyroid, and pituitary-adrenal systems have been separated and entirely rewritten.

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Completely new chapters on muscle metabolism, iron metabolism, blood clotting, and gastrointestinal function have been added. All the chapters of the first edition have been revised with pertinent new

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information, and many have been completely rewritten. This volume contains 10 chapters and opens with a discussion of carbohydrate metabolism and associated disorders. Separate chapters follow on lipid

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metabolism, plasma proteins,
and porphyrins. Subsequent
chapters deal with liver,
pancreatic, and thyroid
functions; the role of the
pituitary and adrenal glands in
health and disease; the function

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of calcium, inorganic phosphorus, and magnesium metabolism in health and disease; and iron metabolism. Available for the first time in Achieve, the definitive reference text for biochemistry

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Lehninger Principles of Biochemistry, 8e helps students focus on the most important aspects of biochemistry- the principles! Dave Nelson, Michael Cox, and new co-author Aaron Hoskins identify the most

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important principles of biochemistry and direct student attention to these with icons and resources targeted to each principle. The 8th edition has been fully updated for focus, approachability, and up-to-date

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content. New and updated end-of-chapter questions -all available in the Achieve problem library with error-specific feedback and thorough solutions. These questions went through a rigorous development

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process to ensure they were robust, engaging and accurate. Lehninger Principles of Biochemistry, 8e continues to help students navigate the complex discipline of biochemistry with a clear and

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coherent presentation.

Renowned authors David Nelson, Michael Cox, and new co-author Aaron Hoskins have focused this eighth edition around the fundamental principles to help students

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understand and navigate the most important aspects of biochemistry. Text features and digital resources in the new Achieve platform emphasize this focus on the principles, while coverage of recent

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discoveries and the most up-to-date research provide fascinating context for learning the dynamic discipline of biochemistry. Achieve supports educators and students throughout the full range of

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instruction, including assets suitable for pre-class preparation, in-class active learning, and post-class study and assessment. The pairing of a powerful new platform with outstanding biochemistry

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content provides an unrivaled learning experience.

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including: analytical criteria for the medical usefulness of laboratory tests, variables that affect tests and results, laboratory medicine, applications of statistical methods, and most importantly

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editors, Nader Rifai, Carl
Wittwer and Rita Horvath,

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intracellular transport and
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signalling 27. The immune system
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motors and intracellular transport
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available free for downloading
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"[The book] has been designed for one- and two-semester courses for undergraduates majoring in

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biochemistry and related disciplines, as well as for graduate students who require a broad introduction to biochemistry. It is also suited for courses at medical, dental, veterinary, pharmacy, and other professional schools. The book will be used most

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successfully by students who have completed two years of college-level chemistry, including organic chemistry, and have received at least an introduction to biology. While some background in physics and physical chemistry would be useful, all relevant

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principles are introduced in a manner that should make them accessible to most students"--Preface.

Lehninger Principles of Biochemistry,
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focusing on interactions among pathways. They will also get an updated understanding of the relevance of biochemistry to the study of human disease (especially diabetes) as well as the important role of evolutionary theory in

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biochemical research. These extensive content changes, as well as new art and powerful new learning technologies make this edition of Lehninger Principles of Biochemistry the most impressive yet." --Publisher description.

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clinical applications; helpful icons allow for smooth navigation, making complex concepts easier to grasp. Full-color illustrations make chemical structures and biochemical pathways easy to visualize.

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Patient vignettes connect biochemistry to human health and disease. Clinical Notes explain patient signs or symptoms, and Method Notes relate biochemistry to the laboratory tests ordered during

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make it easy to review all
diseases and all methods
covered throughout the book
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**interest and tap into students
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and how topics are relevant and
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Biochemistry” features highlight
how biochemistry affects our
bodies, as well as “Critical**

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edition of Biochemistry will help students master the concepts of biochemistry and gain new insight into this dynamic science.

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Study Guide and Solutions
Manual for Lehninger Principles
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"This study guide was written to**

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and key text figures."--taken from
Preface, page v.

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**textbook describes the
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of the major classes of
cellular constituents,
and explains the
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biological context in**

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