DESCRIPTION

In *Organic Chemistry, 3rd Edition*, Dr. David Klein builds on the phenomenal success of the first two editions, which presented his unique skills-based approach to learning organic chemistry. Dr. Klein’s skills-based approach includes all of the concepts typically covered in an organic chemistry textbook, and places special emphasis on skills development to support these concepts. This emphasis on skills development in unique SkillBuilder examples provides extensive opportunities for two-semester Organic Chemistry students to develop proficiency in the key skills necessary to succeed in organic chemistry.

ABOUT THE AUTHOR

David Klein is a Senior Lecturer in the Department of Chemistry at Johns Hopkins University where he has taught organic chemistry since 1999. Having worked with thousands of students, he has intense first-hand knowledge of how they learn and the difficulties they encounter. He received his bachelor’s degree in chemistry from Johns Hopkins University and his PhD from the University of California at Los Angeles under the supervision of Professor Orville Chapman. Motivated by his experiences teaching organic chemistry as a graduate student at UCLA, David wrote *Organic Chemistry as a Second Language* (John Wiley & Sons, 2004, updated 2nd edition published in 2008), which has become a highly valued student study resource. David has received numerous teaching awards at both UCLA and Johns Hopkins for his unique, skill-building approach to organic chemistry instruction. David is married with five children, and he enjoys skiing, scuba diving, and Tae Kwon Do.
NEW TO EDITION

• Author-curated WileyPLUS course - offering instructors a pre-built suite of assignments tailored to the way David Klein teaches his course

• ACS-style problem sets in each chapter: providing students practice on solving problems similar to what they will encounter on the ACS exam

• Interactive graphics embedded in every chapter: provides students with drag and drop- style assessment on mechanism problems (over 300 total)

• E-book-embedded, auto-graded practice problems in every chapter, (over 500 total)

• 3D Molecular Visualizations, Reaction Explorer Mechanisms embedded in each chapter

• Mid-level literature based problems - offering students sample problems based “real world” applications (or cases) that have been published in professional journals

• Author-created Solved Problem Videos, over (200 total)

• ORION, adaptive practice questions for Polymers and Transition Metal chapters

• Chapter on organometallic reactions covers modern synthetic techniques, including Stille coupling, Suzuki coupling, Negishi coupling, the Heck reaction, and alkene metathesis.

• Substitution and elimination reactions have been combined into one chapter (chapter 7) to better show the relationship between these two important concepts

• Fully integrated ebook with embedded multi-media content

FEATURES

• WileyPLUS is a research-based online environment for effective teaching and learning. WileyPLUS is packed with interactive study tools and resources—including the complete online textbook—giving your students more value for their money. With WileyPLUS, students are provided with unique study strategies, tools, and support based on learning styles for success in Organic Chemistry. WileyPLUS hallmarks, such as Reaction Explorer, remain alongside brand-new course updates.
**SkillBuilder Approach illustrated by the SKILLBUILDER Examples.** David Klein’s skills-based approach helps students succeed by providing step-by-step, problem-solving guidance that facilitates conceptual understanding of the core concepts in Organic Chemistry. Special emphasis is placed on drawing resonance structures, predicting products, proposing mechanisms, proposing syntheses, and drawing mechanisms. SkillBuilders are broken into 3 parts:

- **Learn the Skill**
- **Practice the Skill**
- **Apply the Skill**

- Conceptual Checkpoints exercises appear after many sections to give students practice of the recently presented concepts.

- Approximately 100 Medically Speaking & Practically Speaking application boxes demonstrate relevancy of organic chemistry to medicine, current research, and the world around us.

- Chapter Openers contain a “Did You Ever Wonder” question that serve to capture the students’ interest. These questions are answered within that chapter.

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