

ORGANIC CHEMISTRY

THIRD EDITION



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Klein,2010-06-28 This text is an unbound binder ready edition Students often say I studied 40 hours for this exam and I still didnt do well Where did I go wrong Most instructors hear this complaint every year In many cases it is true that the student invested countless hours only to produce abysmal results Often inefficient study habits are to blame The important question is why do so many students have difficulty preparing themselves for organic chemistry exams There are certainly several factors at play here but perhaps the most dominant factor is a fundamental disconnect between what students learn and the tasks expected of them To address the disconnect in organic chemistry instruction David Klein has developed a textbook that utilizes a skills based approach to instruction The textbook includes all of the concepts typically covered in an organic chemistry textbook but special emphasis is placed on skills development to support these concepts This emphasis upon skills development will provide students with a greater opportunity to develop proficiency in the key skills necessary to succeed in organic chemistry As an example resonance structures are used repeatedly throughout the course and students must become masters of resonance structures early in the course Therefore a significant portion of chapter 1 is devoted to drawing resonance structures Two chapters 6 and 12 are devoted almost entirely to skill development Chapter 6 emphasizes skills that are necessary for drawing mechanisms while chapter 12 prepares the student for proposing syntheses In addition each chapter contains numerous Skillbuilders each of which is designed to foster a specific skill Each skillbuilder contains three parts 1 Learn the Skill a solved problem that demonstrates a particular skill 2 Practice the Skill numerous problems similar to the solved problem that give the students an opportunity to practice and master the skill 3 Apply the Skill one or two more challenging problems in which the student must apply the skill in a slightly different environment These problems include conceptual cumulative and applied problems that encourage students to think out of the box Sometimes problems that foreshadow concepts introduced in later chapters are also included All SkillBuilders are visually summarized at the end of each chapter Skillbuilder review followed by a list of suggested in chapter and end of chapter practice problems David Klein is a lecturer at Johns Hopkins University where he teaches Organic and General Chemistry He is a dynamic and creative teacher and uses analogy to help students grasp difficult topics Kleins unique informal voice and manner of presentation help students truly master key topics in this course He is also the author of Organic Chemistry as a Second Language and General Chemistry as a Second Language which have both been highly successful

Organic Chemistry David R. Klein,2020-12-22 In Organic Chemistry 4th Edition Dr David Klein builds on the phenomenal success of the first three editions with his skills based approach to learning organic chemistry The Klein program covers all the concepts typically covered in an organic chemistry course while placing a special emphasis on the skills development needed to support these concepts Students in organic chemistry need to be able to bridge the gap between theory concepts and practice problem solving skills Klein s SkillBuilder examples and activities offer extensive opportunities for students to develop proficiency in the key skills necessary to succeed in organic chemistry

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