

WORKBOOK FOR ORGANIC SYNTHESIS STRATEGY AND CONTROL

UNLOCKING THE SECRETS OF CREATION: A JOURNEY THROUGH 'WORKBOOK FOR ORGANIC SYNTHESIS STRATEGY AND CONTROL'

PREPARE YOURSELVES, FELLOW ADVENTURERS IN THE REALM OF KNOWLEDGE, FOR A TRULY EXTRAORDINARY EXPEDITION AWAITS WITHIN THE PAGES OF 'WORKBOOK FOR ORGANIC SYNTHESIS STRATEGY AND CONTROL'. FORGET DRY TEXTBOOKS AND DUSTY LECTURES; THIS ISN'T JUST A WORKBOOK, IT'S AN INVITATION TO STEP INTO A VIBRANT, IMAGINATIVE WORLD WHERE THE VERY BUILDING BLOCKS OF MATTER BECOME YOUR PLAYFUL COMPANIONS AND THE ART OF CREATION IS A THRILLING, ACCESSIBLE PURSUIT. IF YOU THOUGHT ORGANIC SYNTHESIS WAS JUST FOR SEASONED CHEMISTS, THINK AGAIN! THIS BOOK POSSESSES A TRULY MAGICAL ABILITY TO WEAVE COMPLEX CONCEPTS INTO AN ENGAGING NARRATIVE THAT WILL CAPTIVATE HEARTS OF ALL AGES AND BACKGROUNDS.

WHAT SETS THIS REMARKABLE WORK APART IS ITS UTTERLY IMAGINATIVE SETTING. IMAGINE A BUSTLING ATELIER, NOT OF PAINT AND CANVAS, BUT OF MOLECULES AND REACTIONS! THE AUTHORS HAVE MASTERFULLY CRAFTED A LEARNING ENVIRONMENT THAT FEELS LESS LIKE STUDYING AND MORE LIKE EMBARKING ON A GRAND ADVENTURE. EACH PROBLEM, EACH STRATEGY, IS PRESENTED NOT AS A DRY TASK, BUT AS A PUZZLE WAITING TO BE SOLVED, A CHALLENGE TO BE EMBRACED, WITHIN THIS VIBRANT, CONCEPTUAL LANDSCAPE. YOU'LL FIND YOURSELF CHEERING FOR YOUR MOLECULAR CREATIONS, FEELING THE THRILL OF DISCOVERY AS YOU NAVIGATE THE INTRICATE PATHWAYS OF SYNTHESIS.

BEYOND THE IMAGINATIVE SCENERY, THE EMOTIONAL DEPTH OF 'WORKBOOK FOR ORGANIC SYNTHESIS STRATEGY AND CONTROL' IS SURPRISINGLY PROFOUND. AS YOU DELVE DEEPER, YOU'LL EXPERIENCE THE SATISFYING TRIUMPH OF OVERCOMING A TRICKY REACTION, THE QUIET INTROSPECTION OF UNDERSTANDING A SUBTLE MECHANISTIC NUANCE, AND THE SHEER JOY OF WITNESSING ELEGANT SOLUTIONS UNFOLD. THE AUTHORS HAVE A GIFT FOR MAKING YOU *FEEL* THE CHEMISTRY,

FOSTERING A GENUINE CONNECTION WITH THE MATERIAL THAT TRANSCENDS MERE MEMORIZATION. IT'S AN EMOTIONAL JOURNEY THAT BUILDS CONFIDENCE AND IGNITES A PASSION FOR UNDERSTANDING HOW THINGS ARE MADE.

AND THE UNIVERSAL APPEAL? IT'S SIMPLY BREATHTAKING! WHETHER YOU'RE A SEASONED PROFESSIONAL LOOKING TO REFINE YOUR APPROACH, A CURIOUS STUDENT JUST BEGINNING YOUR SCIENTIFIC JOURNEY, OR A CASUAL READER SIMPLY SEEKING TO EXPAND YOUR HORIZONS AND MARVEL AT THE WONDERS OF THE WORLD AROUND US, THIS BOOK HAS SOMETHING TRULY SPECIAL TO OFFER. THE CLEAR EXPLANATIONS, THE THOUGHTFULLY DESIGNED EXERCISES, AND THE ENCOURAGING TONE MAKE THE SEEMINGLY DAUNTING WORLD OF ORGANIC SYNTHESIS FEEL APPROACHABLE AND EXCITING. IT'S A TESTAMENT TO THE POWER OF EFFECTIVE COMMUNICATION AND A REMINDER THAT LEARNING CAN, AND SHOULD, BE A DELIGHTFUL EXPERIENCE FOR EVERYONE.

STRENGTHS OF THE WORKBOOK:

AN IMMERSIVE & IMAGINATIVE SETTING: TRANSFORMS ABSTRACT CONCEPTS INTO A TANGIBLE, ENGAGING WORLD OF MOLECULAR CREATION.

REMARKABLE EMOTIONAL DEPTH: FOSTERS A GENUINE CONNECTION WITH THE MATERIAL, LEADING TO SATISFYING TRIUMPHS AND PROFOUND UNDERSTANDING.

UNIVERSAL APPEAL: PERFECTLY CRAFTED FOR PROFESSIONALS, STUDENTS, AND CURIOUS MINDS ALIKE, MAKING COMPLEX SCIENCE ACCESSIBLE AND EXCITING.

ENCOURAGING & OPTIMISTIC TONE: BUILDS CONFIDENCE AND IGNITES A PASSION FOR LEARNING WITHOUT INTIMIDATION.

THOUGHTFULLY DESIGNED EXERCISES: PRACTICAL APPLICATION THAT REINFORCES LEARNING AND FOSTERS STRATEGIC THINKING.

DIVE INTO 'WORKBOOK FOR ORGANIC SYNTHESIS STRATEGY AND CONTROL' AND DISCOVER THE MAGIC FOR YOURSELF. YOU'LL EMERGE NOT JUST MORE INFORMED, BUT INSPIRED, WITH A NEWFOUND APPRECIATION FOR THE INTRICATE BEAUTY OF MOLECULAR CONSTRUCTION. THIS ISN'T JUST A BOOK; IT'S A GATEWAY TO UNDERSTANDING, A CATALYST FOR CREATIVITY, AND A TIMELESS CLASSIC THAT CONTINUES TO CAPTURE HEARTS WORLDWIDE. **WE WHOLEHEARTEDLY RECOMMEND THIS EXPERIENCE** - IT'S A JOURNEY THAT WILL INFORM YOUR UNDERSTANDING AND SPARK YOUR IMAGINATION FOR YEARS TO COME. PREPARE TO BE ENCHANTED!

A HEARTFELT RECOMMENDATION: THIS BOOK IS A BEACON OF ENGAGING SCIENCE EDUCATION, OFFERING A TRULY UNIQUE AND REWARDING EXPERIENCE. ITS LASTING IMPACT LIES IN ITS ABILITY TO DEMYSTIFY COMPLEX CHEMISTRY, MAKING IT A JOY TO LEARN AND A SOURCE OF ENDLESS WONDER. PREPARE TO BE CAPTIVATED!

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ORGANIC SYNTHESIS STRATEGY AND CONTROL IS THE LONG AWAITED SEQUEL TO STUART WARREN S
 BESTSELLER ORGANIC SYNTHESIS THE DISCONNECTION APPROACH WHICH LOOKED AT THE PLANNING
 BEHIND THE SYNTHESIS OF COMPOUNDS THIS UNIQUE BOOK NOW PROVIDES A COMPREHENSIVE
 PRACTICAL ACCOUNT OF THE KEY CONCEPTS INVOLVED IN SYNTHESISING COMPOUNDS AND FOCUSES
 ON PUTTING THE PLANNING INTO PRACTICE THE TWO THEMES OF THE BOOK ARE STRATEGY AND
 CONTROL SOLVING PROBLEMS EITHER BY FINDING AN ALTERNATIVE STRATEGY OR BY CONTROLLING
 ANY ESTABLISHED STRATEGY TO MAKE IT WORK THE BOOK IS DIVIDED INTO FIVE SECTIONS THAT
 DEAL WITH SELECTIVITY CARBON CARBON SINGLE BONDS CARBON CARBON DOUBLE BONDS
 STEREOCHEMISTRY AND FUNCTIONAL GROUP STRATEGY A COMPREHENSIVE PRACTICAL ACCOUNT OF

THE KEY CONCEPTS INVOLVED IN SYNTHESISING COMPOUNDS TAKES A MECHANISTIC APPROACH WHICH EXPLAINS REACTIONS AND GIVES GUIDELINES ON HOW REACTIONS MIGHT BEHAVE IN DIFFERENT SITUATIONS FOCUSES ON REACTIONS THAT REALLY WORK RATHER THAN THOSE WITH LIMITED APPLICATION CONTAINS EXTENSIVE UP TO DATE REFERENCES IN EACH CHAPTER STUDENTS AND PROFESSIONAL CHEMISTS FAMILIAR WITH ORGANIC SYNTHESIS THE DISCONNECTION APPROACH WILL ENJOY THE LEAP INTO A BOOK DESIGNED FOR CHEMISTS AT THE COALFACE OF ORGANIC SYNTHESIS

THIS WORKBOOK ACCOMPANIES ORGANIC SYNTHESIS STRATEGY AND CONTROL THE BESTSELLING ADVANCED ORGANIC TEXTBOOK PROVIDES A COMPLETE COURSE FOR ADVANCED ORGANIC STUDENTS AND INCLUDES A GRADED SET OF PROBLEMS SOLUTIONS AND DISCUSSIONS TO ILLUSTRATE AND DEVELOP THE THEMES OF EACH OF THE CHAPTERS IN THE TEXTBOOK

ONE APPROACH TO ORGANIC SYNTHESIS IS RETROSYNTHETIC ANALYSIS WITH THIS APPROACH A CHEMIST WILL START WITH THE STRUCTURE OF THEIR TARGET MOLECULE AND PROGRESSIVELY CUT BONDS TO CREATE SIMPLER MOLECULES REVERSING THIS PROCESS GIVES A SYNTHETIC ROUTE TO THE TARGET MOLECULE FROM SIMPLER STARTING MATERIALS THIS DISCONNECTION APPROACH TO SYNTHESIS IS NOW A FUNDAMENTAL PART OF EVERY ORGANIC SYNTHESIS COURSE ORGANIC SYNTHESIS THE DISCONNECTION APPROACH 2ND EDITION INTRODUCES THIS IMPORTANT TECHNIQUE TO HELP STUDENTS TO DESIGN THEIR OWN ORGANIC SYNTHESSES THERE ARE FORTY CHAPTERS THOSE ON THE SYNTHESIS OF GIVEN TYPES OF MOLECULES ALTERNATE WITH STRATEGY CHAPTERS IN WHICH THE METHODS JUST LEARNT ARE PLACED IN A WIDER CONTEXT THE SYNTHESIS CHAPTERS COVER MANY WAYS OF MAKING EACH TYPE OF MOLECULE STARTING WITH SIMPLE AROMATIC AND ALIPHATIC COMPOUNDS WITH ONE FUNCTIONAL GROUP AND PROGRESSING TO MOLECULES WITH MANY FUNCTIONAL GROUPS THE STRATEGY CHAPTERS COVER QUESTIONS OF SELECTIVITY PROTECTION STEREOCHEMISTRY AND DEVELOP MORE ADVANCED THINKING VIA REAGENTS SPECIFICALLY DESIGNED FOR DIFFICULT PROBLEMS EXAMPLES ARE DRAWN FROM PHARMACEUTICALS AGROCHEMICALS NATURAL PRODUCTS PHEROMONES PERFUMERY AND FLAVOURING COMPOUNDS DYESTUFFS MONOMERS AND INTERMEDIATES USED IN MORE ADVANCED SYNTHETIC WORK REASONS FOR WISHING TO SYNTHESISE EACH COMPOUND ARE GIVEN THIS SECOND EDITION HAS BEEN FULLY REVISED AND UPDATED WITH A MODERN LOOK RECENT EXAMPLES AND TECHNIQUES ARE INCLUDED AND ILLUSTRATED ADDITIONAL MATERIAL HAS BEEN ADDED TO TAKE THE STUDENT TO THE LEVEL REQUIRED BY THE SEQUEL ORGANIC SYNTHESIS STRATEGY AND CONTROL SEVERAL CHAPTERS CONTAIN EXTENSIVE NEW MATERIAL BASED ON COURSES THAT THE AUTHORS GIVE TO CHEMISTS IN THE PHARMACEUTICAL INDUSTRY ORGANIC SYNTHESIS THE DISCONNECTION APPROACH 2ND EDITION PROVIDES A FULL COURSE IN RETROSYNTHETIC ANALYSIS FOR CHEMISTRY AND BIOCHEMISTRY STUDENTS AND A REFRESHER FOR ORGANIC CHEMISTS WORKING IN INDUSTRY AND ACADEMIA

THIS TITLE PROVIDES A FORUM FOR INVESTIGATORS TO DISCUSS THEIR APPROACH TO THE SCIENCE AND ART OF ORGANIC SYNTHESIS IN A UNIQUE WAY THERE ARE STORIES THAT VIVIDLY DEMONSTRATE THE POWER OF THE HUMAN ENDEAVOUR KNOWN AS ORGANIC SYNTHESIS AND THE CREATIVITY AND TENACITY OF ITS PRACTITIONERS

STRATEGIES AND TACTICS IN ORGANIC SYNTHESIS PRESENTS THE CHRONOLOGICAL DEVELOPMENT OF IDEAS AND EXPERIMENTATION IN ORGANIC SYNTHESIS THIS BOOK IS ORGANIZED INTO 13 CHAPTERS THAT EXPLORE THE SYNTHETIC PATHWAYS OF VARIOUS ORGANIC COMPOUNDS THE FIRST FOUR CHAPTERS DESCRIBE THE VARIATIONS IN THE SYNTHESIS OF SUPERPHANE GIBBERELIC ACID PROSTAGLANDIN AND ALKALOIDS THE FOLLOWING CHAPTERS COVER THE ORGANIC SYNTHESIS AND BIOSYNTHESIS OF TYLONOLIDE ENDIANDRIC ACIDS A G DODECAHEDRANE FOMANNOSIN AND ILLUDOL A CHAPTER FOCUSES ON THE EVOLUTION OF THE TOTAL SYNTHESIS OF JATROPHONE AN ARCHITECTURALLY INTERESTING MACROCYCLIC DITERPENE EXTRACTED FROM JATROPHA GOSSYPIIFOLIA ANOTHER CHAPTER DISCUSSES THE HEURISTIC PRINCIPLE FOR THE STEREORATIONALE DESIGN OF ALKALOID SYNTHESSES THE REMAINING CHAPTERS DISCUSS THE APPROACH TO THE TOTAL SYNTHESIS OF STEROIDS STREPTONIGRIN METHYNOLIDE AND PRELOG DJERASSI LACTONIC ACID ORGANIC CHEMISTS TEACHERS AND STUDENTS WILL FIND THIS BOOK OF GREAT VALUE

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THE ALGEBRA OF ORGANIC SYNTHESIS COMBINES THE AIMS PHILOSOPHIES AND EFFORTS INVOLVED IN ORGANIC SYNTHESIS REACTION OPTIMIZATION AND GREEN CHEMISTRY WITH TECHNIQUES FOR DETERMINING QUANTITATIVELY JUST HOW GREEN SYNTHESIS PLANS ARE IT PROVIDES THE FIRST COMPLETE QUANTITATIVE DESCRIPTION OF SYNTHESIS STRATEGY ANALYSIS IN THE CONTEXT OF GREEN CH

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K C NICOLAOU WINNER OF THE NEMITSAS PRIZE 2014 IN CHEMISTRY ADOPTING HIS DIDACTICALLY SKILLFUL APPROACH K C NICOLAOU COMPILES IN THIS TEXTBOOK THE IMPORTANT SYNTHETIC METHODS THAT LEAD TO A COMPLEX MOLECULE WITH VALUABLE PROPERTIES HE EXPLAINS ALL THE KEY STEPS OF THE SYNTHETIC PATHWAY HIGHLIGHTING THE MAJOR DEVELOPMENTS IN BLUE BOXED SECTIONS AND CONTRASTING THESE TO OTHER SYNTHETIC METHODS A WONDERFUL TOOL FOR LEARNING AND TEACHING AND A MUST HAVE FOR ALL FUTURE AND PRESENT ORGANIC AND BIOCHEMISTS

NEVER HIGHLIGHT A BOOK AGAIN INCLUDES ALL TESTABLE TERMS CONCEPTS PERSONS PLACES AND EVENTS Cram101 JUST THE FACTS101 STUDYGUIDES GIVES ALL OF THE OUTLINES HIGHLIGHTS AND QUIZZES FOR YOUR TEXTBOOK WITH OPTIONAL ONLINE COMPREHENSIVE PRACTICE TESTS ONLY Cram101 IS TEXTBOOK SPECIFIC ACCOMPANIES 9780872893795 THIS ITEM IS PRINTED ON DEMAND

BRIDGING THE GAP BETWEEN ORGANIC CHEMISTRY FUNDAMENTALS AND ADVANCED SYNTHESIS PROBLEMS INTRODUCTION TO STRATEGIES OF ORGANIC SYNTHESIS BRIDGES THE KNOWLEDGE GAP BETWEEN SOPHOMORE LEVEL ORGANIC CHEMISTRY AND SENIOR LEVEL OR GRADUATE LEVEL SYNTHESIS TO HELP STUDENTS MORE EASILY ADJUST TO A SYNTHETIC CHEMISTRY MINDSET BEGINNING WITH A THOROUGH REVIEW OF REAGENTS FUNCTIONAL GROUPS AND THEIR REACTIONS THIS BOOK PREPARES STUDENTS TO PROGRESS INTO ADVANCED SYNTHETIC STRATEGIES MAJOR REACTIONS ARE PRESENTED FROM A

MECHANISTIC PERSPECTIVE AND THEN AGAIN FROM A SYNTHETIC CHEMIST'S POINT OF VIEW TO HELP STUDENTS SHIFT THEIR THOUGHT PATTERNS AND TEACH THEM HOW TO IMAGINE THE SERIES OF REACTIONS NEEDED TO REACH A DESIRED TARGET MOLECULE. SUCCESS IN ORGANIC SYNTHESIS REQUIRES NOT ONLY FAMILIARITY WITH COMMON REAGENTS AND FUNCTIONAL GROUP INTERCONVERSIONS BUT ALSO A DEEP UNDERSTANDING OF FUNCTIONAL GROUP BEHAVIOR AND REACTIVITY. THIS BOOK PROVIDES CLEAR EXPLANATIONS OF SUCH REACTIVITIES AND EXPLICITLY TEACHES STUDENTS HOW TO MAKE LOGICAL DISCONNECTIONS OF A TARGET MOLECULE. THIS NEW SECOND EDITION OF INTRODUCTION TO STRATEGIES FOR ORGANIC SYNTHESIS REVIEWS FUNDAMENTAL ORGANIC CHEMISTRY CONCEPTS INCLUDING FUNCTIONAL GROUP TRANSFORMATIONS, REAGENTS, STEREOCHEMISTRY AND MECHANISMS. EXPLORES ADVANCED TOPICS INCLUDING PROTECTIVE GROUPS, SYNTHETIC EQUIVALENTS AND TRANSITION METAL-MEDIATED COUPLING REACTIONS. HELPS STUDENTS ENVISION FORWARD REACTIONS AND BACKWARDS DISCONNECTIONS AS A MATTER OF ROUTINE. GIVES STUDENTS CONFIDENCE IN PERFORMING RETROSYNTHETIC ANALYSES OF TARGET MOLECULES. INCLUDES FULLY WORKED EXAMPLES, LITERATURE-BASED PROBLEMS AND OVER 450 CHAPTER PROBLEMS WITH DETAILED SOLUTIONS. PROVIDES CLEAR EXPLANATIONS IN EASY-TO-FOLLOW, STUDENT-FRIENDLY LANGUAGE. FOCUSES ON THE STRATEGIES OF ORGANIC SYNTHESIS RATHER THAN A CATALOGUE OF REACTIONS AND MODERN REAGENTS. THE PROSPECT OF ORGANIC SYNTHESIS CAN BE DAUNTING AT THE OUTSET BUT THIS BOOK SERVES AS A USEFUL STEPPING STONE TO REFRESH EXISTING KNOWLEDGE OF ORGANIC CHEMISTRY WHILE INTRODUCING THE GENERAL STRATEGIES OF SYNTHESIS. USEFUL AS BOTH A TEXTBOOK AND A BENCH REFERENCE. THIS TEXT PROVIDES VALUE TO GRADUATE AND ADVANCED UNDERGRADUATE STUDENTS ALIKE.

THE DEVELOPMENT OF MORE EFFECTIVE ROUTES TO KNOWN MATERIALS AND THE PRODUCTION OF NEW MATERIALS ARE IMPORTANT GOALS IN MANY AREAS INCLUDING ELECTRONICS, AGRICULTURE, MEDICINE AND TEXTILES. ORGANIC SYNTHESIS IS CENTRAL TO ACHIEVING THESE GOALS. COMPREHENSIVE ORGANIC SYNTHESIS DRAWS TOGETHER THE COMMON THEMES THAT UNDERLIE THE MANY APPARENTLY DISPARATE AREAS OF ORGANIC CHEMISTRY WHICH UNDERPIN SYNTHETIC STRATEGIES. THUS PROVIDING A COMPREHENSIVE OVERVIEW OF THIS IMPORTANT DISCIPLINE. THE CONTRIBUTIONS HAVE BEEN ORGANIZED TO REFLECT THE WAY IN WHICH SYNTHETIC CHEMISTS APPROACH A PROBLEM IN TERMS OF ORGANIC MOLECULES. THE WORK IS DIVIDED INTO FORMATION OF CARBON-CARBON BONDS, INTRODUCTION OF HETEROATOMS AND HETEROATOM INTERCONVERSIONS. THUS VOLUMES 1-5 FOCUS ON CARBON-CARBON FORMATION BUT ALSO INCLUDE ASPECTS OF HETEROATOM INTRODUCTION. VOLUMES 6-8 CONCENTRATE ON INTERCONVERSION OF HETEROATOMS BUT ALSO DEAL WITH EXCHANGE OF CARBON-CARBON BONDS FOR CARBON-HETEROATOM BONDS. ORGANIZATION OF THE CHAPTERS IS ALONG THE THEME OF SELECTIVITY WHICH IS A CRITICAL QUESTION IN DETERMINING THE SUITABILITY OF A SYNTHETIC METHOD. VOLUME 9 CONTAINS CUMULATIVE AUTHOR AND SUBJECT INDEXES. COMPREHENSIVE

ORGANIC SYNTHESIS WILL APPEAL TO A WIDE AUDIENCE THE SET WILL BE AN ESSENTIAL REFERENCE WORK FOR ALL THOSE SEEKING INFORMATION ON THE SOLUTION OF SYNTHETIC PROBLEMS WHETHER THEY BE EXPERIENCED PRACTITIONERS OR CHEMISTS WHOSE MAJOR INTERESTS LIE OUTSIDE ORGANIC SYNTHESIS IN ADDITION SYNTHETIC CHEMISTS REQUIRING THE ESSENTIAL FACTS IN NEW AREAS AS WELL AS STUDENTS COMPLETELY NEW TO THE FIELD WILL FIND COMPREHENSIVE ORGANIC SYNTHESIS AN INVALUABLE SOURCE PROVIDING AUTHORITATIVE ACCOUNTS OF THE ESSENTIAL FACTS AND CONCEPTS

NEVER HIGHLIGHT A BOOK AGAIN VIRTUALLY ALL OF THE TESTABLE TERMS CONCEPTS PERSONS PLACES AND EVENTS FROM THE TEXTBOOK ARE INCLUDED CRAM101 JUST THE FACTS101 STUDYGUIDES GIVE ALL OF THE OUTLINES HIGHLIGHTS NOTES AND QUIZZES FOR YOUR TEXTBOOK WITH OPTIONAL ONLINE COMPREHENSIVE PRACTICE TESTS ONLY CRAM101 IS TEXTBOOK SPECIFIC ACCOMPANYS 9780471489405

FOLLOWING AN INTRODUCTORY LOOK AT THE CONCEPT OF SYNTHESIS THIS TEXT GOES ON TO DISCUSS SOURCES OF ENANTIOMERICALLY PURE COMPOUNDS THE CHIRON APPROACH LOCATING THE VARIOUS SUBSTRUCTURES SYNTHESIS WITH THE VARIOUS PRECURSORS AND COMPUTER AIDED SYNTHESIS

THE DEVELOPMENT OF MORE EFFECTIVE ROUTES TO KNOWN MATERIALS AND THE PRODUCTION OF NEW MATERIALS ARE IMPORTANT GOALS IN MANY AREAS INCLUDING ELECTRONICS AGRICULTURE MEDICINE AND TEXTILES ORGANIC SYNTHESIS IS CENTRAL TO ACHIEVING THESE GOALS COMPREHENSIVE ORGANIC SYNTHESIS DRAWS TOGETHER THE COMMON THEMES THAT UNDERLIE THE MANY APPARENTLY DISPARATE AREAS OF ORGANIC CHEMISTRY WHICH UNDERPIN SYNTHETIC STRATEGIES THUS PROVIDING A COMPREHENSIVE OVERVIEW OF THIS IMPORTANT DISCIPLINE THE CONTRIBUTIONS HAVE BEEN ORGANIZED TO REFLECT THE WAY IN WHICH SYNTHETIC CHEMISTS APPROACH A PROBLEM IN TERMS OF ORGANIC MOLECULES THE WORK IS DIVIDED INTO FORMATION OF CARBON CARBON BONDS INTRODUCTION OF HETEROATOMS AND HETEROATOM INTERCONVERSIONS THUS VOLUMES 1 5 FOCUS ON CARBON CARBON FORMATION BUT ALSO INCLUDE ASPECTS OF HETEROATOM INTRODUCTION VOLUMES 6 8 CONCENTRATE ON INTERCONVERSION OF HETEROATOMS BUT ALSO DEAL WITH EXCHANGE OF CARBON CARBON BONDS FOR CARBON HETEROATOM BONDS ORGANIZATION OF THE CHAPTERS IS ALONG THE THEME OF SELECTIVITY WHICH IS A CRITICAL QUESTION IN DETERMINING THE SUITABILITY OF A SYNTHETIC METHOD VOLUME 9 CONTAINS CUMULATIVE AUTHOR AND SUBJECT INDEXES COMPREHENSIVE ORGANIC SYNTHESIS WILL APPEAL TO A WIDE AUDIENCE THE SET WILL BE AN ESSENTIAL REFERENCE WORK FOR ALL THOSE SEEKING INFORMATION ON THE SOLUTION OF SYNTHETIC PROBLEMS WHETHER THEY BE EXPERIENCED PRACTITIONERS OR CHEMISTS WHOSE MAJOR INTERESTS LIE OUTSIDE ORGANIC SYNTHESIS IN ADDITION SYNTHETIC CHEMISTS REQUIRING THE ESSENTIAL FACTS IN NEW AREAS AS

WELL AS STUDENTS COMPLETELY NEW TO THE FIELD WILL FIND COMPREHENSIVE ORGANIC SYNTHESIS AN INVALUABLE SOURCE PROVIDING AUTHORITATIVE ACCOUNTS OF THE ESSENTIAL FACTS AND CONCEPTS

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ONE APPROACH TO ORGANIC SYNTHESIS IS RETROSYNTHETIC ANALYSIS WITH THIS APPROACH A CHEMIST WILL START WITH THE STRUCTURE OF THEIR TARGET MOLECULE AND PROGRESSIVELY CUT BONDS TO CREATE SIMPLER MOLECULES REVERSING THIS PROCESS GIVES A SYNTHETIC ROUTE TO THE TARGET MOLECULE FROM SIMPLER STARTING MATERIALS THIS DISCONNECTION APPROACH TO SYNTHESIS IS NOW A FUNDAMENTAL PART OF EVERY ORGANIC SYNTHESIS COURSE ORGANIC SYNTHESIS THE DISCONNECTION APPROACH 2ND EDITION INTRODUCES THIS IMPORTANT TECHNIQUE TO HELP STUDENTS TO DESIGN THEIR OWN ORGANIC SYNTHESSES THERE ARE FORTY CHAPTERS THOSE ON THE SYNTHESIS OF GIVEN TYPES OF MOLECULES ALTERNATE WITH STRATEGY CHAPTERS IN WHICH THE METHODS JUST LEARNT ARE PLACED IN A WIDER CONTEXT THE SYNTHESIS CHAPTERS COVER MANY WAYS OF MAKING EACH TYPE OF MOLECULE STARTING WITH SIMPLE AROMATIC AND ALIPHATIC COMPOUNDS WITH ONE FUNCTIONAL GROUP AND PROGRESSING TO MOLECULES WITH MANY

FUNCTIONAL GROUPS THE STRATEGY CHAPTERS COVER QUESTIONS OF SELECTIVITY PROTECTION STEREOCHEMISTRY AND DEVELOP MORE ADVANCED THINKING VIA REAGENTS SPECIFICALLY DESIGNED FOR DIFFICULT PROBLEMS EXAMPLES ARE DRAWN FROM PHARMACEUTICALS AGROCHEMICALS NATURAL PRODUCTS PHEROMONES PERFUMERY AND FLAVOURING COMPOUNDS DYESTUFFS MONOMERS AND INTERMEDIATES USED IN MORE ADVANCED SYNTHETIC WORK REASONS FOR WISHING TO SYNTHESISE EACH COMPOUND ARE GIVEN THIS SECOND EDITION HAS BEEN FULLY REVISED AND UPDATED WITH A MODERN LOOK RECENT EXAMPLES AND TECHNIQUES ARE INCLUDED AND ILLUSTRATED ADDITIONAL MATERIAL HAS BEEN ADDED TO TAKE THE STUDENT TO THE LEVEL REQUIRED BY THE SEQUEL ORGANIC SYNTHESIS STRATEGY AND CONTROL SEVERAL CHAPTERS CONTAIN EXTENSIVE NEW MATERIAL BASED ON COURSES THAT THE AUTHORS GIVE TO CHEMISTS IN THE PHARMACEUTICAL INDUSTRY ORGANIC SYNTHESIS THE DISCONNECTION APPROACH 2ND EDITION PROVIDES A FULL COURSE IN RETROSYNTHETIC ANALYSIS FOR CHEMISTRY AND BIOCHEMISTRY STUDENTS AND A REFRESHER FOR ORGANIC CHEMISTS WORKING IN INDUSTRY AND ACADEMIA

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