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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- Abbreviations -- About the companion website -- Introduction -- Chapter 1 Nucleophilic substitution and elimination -- Nucleophilic substitution: SN1 and SN2 reactions -- Elimination: E1 and E2 eliminations -- Chapter 2 Alkene and alkyne chemistry -- Alkene and alkyne bonding -- Electrophilic addition -- Nucleophilic addition to C = C bonds conjugated to a C = O -- Other types of additions -- Chapter 3 Nucleophilic additions to carbonyl groups -- Chapter 4 Enolate chemistry -- Halogenation -- Deuteriation -- Alkylation -- Condensation reactions -- Chapter 5 Aromatic chemistry -- Bonding in aromatic compounds -- Electrophilic aromatic substitution (SEAr) -- Nucleophilic aromatic substitution (SNAr) -- Oxidation -- Chapter 6 Rearrangements -- Chapter 7 Ligand coupling processes -- Index -- EULA.
Sommario/riassunto	How To Solve Organic Reaction Mechanisms: A Stepwise Approach is an upgraded and much-expanded sequel to the bestselling text Reaction Mechanisms at a Glance. This book takes a unique approach to show that a general problem-solving strategy is applicable to many of the common reactions of organic chemistry, demonstrating that logical and stepwise reasoning, in combination with a good understanding of the fundamentals, is a powerful tool to apply to the solution of problems.

Sub-divided by functional group, the book uses a check-list approach to problem-solving using mechanistic organic chemistry as its basis. Each mechanistic problem is presented as a two-page spread; the left-hand page introduces the problem and provides a stepwise procedure for working through the reaction mechanisms, with helpful hints about the underlying chemistry. The right-hand page contains the full worked solution and summary. This revised edition includes the following updates: A new chapter which applies the problem solving strategy to ligand coupling reactions using transition metals Much-expanded set of fully worked problems Over 40 further problems (with answers for tutors) for use in tutorials How To Solve Organic Reaction Mechanisms: A Stepwise Approach is an essential workbook for all students studying organic chemistry, and a useful aide for teachers of undergraduate organic chemistry to use in their tutorials.