

1. Record Nr.	UNINA990000997980403321
Autore	Georgi, Howard
Titolo	Lie algebras in particle physics : from isospin to unified theories / Howard Georgi ; introd. by Sheldon L. Glashow
Pubbl/distr/stampa	London [etc.] : Benjamin/Cummings, 1982
ISBN	0-8053-3153-0
Descrizione fisica	XXII, 255 p. : ill. ; 24 cm
Collana	Frontiers in physics ; 54
Disciplina	539.72539.73
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910357821003321
Autore	Grossman Robert B
Titolo	The Art of Writing Reasonable Organic Reaction Mechanisms / / by Robert B. Grossman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-28733-5
Edizione	[3rd ed. 2019.]
Descrizione fisica	1 online resource (447 pages) : illustrations
Disciplina	547.139
Soggetti	Chemistry, Organic Biochemistry Pharmacology Chemistry, Inorganic Polymers Organic Chemistry Biochemistry, general Pharmacology/Toxicology Inorganic Chemistry Polymer Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	The Basics -- Polar Reactions under Basic Conditions -- Polar Reactions under Acidic Conditions -- Pericyclic Reactions -- Free-Radical Reactions.-Transition-Metal-Mediated and -Catalyzed Reactions -- Mixed-Mechanism Problems.
Sommario/riassunto	Intended for students of intermediate organic chemistry, this text shows how to write a reasonable mechanism for an organic chemical transformation. The discussion is organized by types of mechanisms and the conditions under which the reaction is executed, rather than by the overall reaction as is the case in most textbooks. The treatment emphasizes unifying principles, showing how common mechanisms link seemingly disparate reactions. Each chapter discusses common mechanistic pathways and suggests practical tips for drawing them.

Worked problems are included in the discussion of each mechanism, and “common error alerts” are scattered throughout the text to warn readers about pitfalls and misconceptions that bedevil students. Each chapter is capped by a large problem set. The author has drawn on his own research and the current literature to ensure that appropriate attention is given to topics across the range of modern organic chemistry. The text is unique in its inclusion of a chapter on reactions mediated or catalyzed by transition metals, an area in which mechanistic understanding is now essential. More modern topics such as olefin metathesis and cycloaromatization are covered without giving short shrift to more traditional areas such as carbonyl chemistry. The text assumes a basic knowledge of organic chemistry. It can be used either in a formal course or by students working on their own, and will be particularly useful for graduate students studying for qualifying examinations. It will also be useful to students and researchers in biochemistry, pharmacology, and inorganic chemistry. The third edition includes greater discussion of the reactions of biological cofactors such as thiamine and pyridoxal, and discussions of modern developments such as metal-catalyzed C–H activation reactions have been added. In terms of stylistic improvements, the author has introduced color into drawings to improve visual clarity and has improved the depictions of radical anions and radical chain reactions. .
