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Nota di contenuto	Hydrolases in Organic Synthesis; Preface for the 2(nd) edition; Preface for the 1(st) edition; Acknowledgments; Contents; 1 Introduction; 2 Designing Enantioselective Reactions; 2.1 Kinetic Resolutions; 2.1.1 Recycling and Sequential Kinetic Resolutions; 2.1.2 Dynamic Kinetic Resolutions; 2.1.2.1 Introduction; 2.1.2.2 Racemization by Protonation/Deprotonation; 2.1.2.3 Racemization by Addition/Elimination; 2.1.2.4 Racemization by Nucleophilic Substitution; 2.1.2.5 Racemization by Oxidation/Reduction; 2.1.2.6 Related Strategies; 2.2 Asymmetric Syntheses 3 Choosing Reaction Media: Water and Organic Solvents3.1 Hydrolysis in Water; 3.2 Transesterifications and Condensations in Organic Solvents; 3.2.1 Increasing the Catalytic Activity in Organic Solvents; 3.2.1.1 Choosing the Best Organic Solvent for High Activity; 3.2.2 Increasing the Enantioselectivity in Organic Solvents; 3.2.3 Water Content and Water Activity; 3.3 Other Reaction Media; 3.3.1 Ionic

Liquids; 3.3.2 Reverse Micelles; 3.3.3 Supercritical Fluids; 3.4 Immobilization; 3.4.1 Introduction; 3.4.1.1 Increasing the Surface Area to Increase Catalytic Activity
4 Protein Sources and Optimization of Biocatalyst Performance4.1 Accessing Biodiversity; 4.2 Creating Improved Biocatalysts; 4.2.1 Directed Evolution; 4.2.1.1 Methods to Create Mutant Libraries; 4.2.1.2 Assay Systems; 4.2.1.3 Selected Examples; 4.2.2 Focused Directed Evolution; 4.3 Catalytic Promiscuity in Hydrolases; 4.3.1 Reactions Involving Functional Group Analogs; 4.3.1.1 Perhydrolases; 4.3.2 Aldol and Michael additions Catalyzed by Hydrolases; 4.3.2.1 Aldol Additions; 4.3.2.2 Michael-Type Additions; 4.3.3 Modifications to Introduce New Reactivity in Hydrolases
4.3.3.1 Enantioselective Reduction of Hydroperoxides with Selenosubtilisin4.3.3.2 Vanadate-Modified Phosphatases as Peroxidases; 5 Lipases and Esterases; 5.1 Availability, Structures and Properties; 5.1.1 Lipases; 5.1.1.1 Classification of Lipases; 5.1.1.2 General Features of PPL, PCL, CRL, CAL-B, and RML; 5.1.2 Esterases; 5.1.3 Lipases and Esterases are / Hydrolases; 5.1.4 Lid or Flap in Interfacial Activation of Lipases; 5.1.5 Substrate Binding Site in Lipases and Esterases; 5.1.6 Designing Reactions with Lipases and Esterases; 5.1.6.1 Acyl Donor for Acylation Reactions
5.1.7 Assays for Lipases and Esterases5.1.7.1 Requirements for a Suitable Assay; 5.1.7.2 How to Distinguish Between Lipase, Esterase, and Protease; 5.2 Survey of Enantioselective Lipase-Catalyzed Reactions; 5.2.1 Alcohols; 5.2.1.1 Secondary Alcohols; 5.2.1.2 Primary Alcohols; 5.2.1.3 Other Alcohols, Amines, and Alcohol Analogs; 5.2.2 Carboxylic Acids; 5.2.2.1 General Considerations; 5.2.2.2 Carboxylic Acids with a Stereocenter at the -Position; 5.2.2.3 Carboxylic Acids with a Stereocenter at the -Position; 5.2.2.4 Other Carboxylic Acids; 5.2.2.5 Double Enantioselection; 5.2.2.6 Anhydrides
5.2.3 Lactones

Sommario/riassunto

From reviews to the first edtion:""Bornscheuer and Kazlauskas have set out, and succeeded, in producing a definitive manual on hydrolytic enzymes (especially lipases, esterases, and proteases) for organic chemists. This is quite simply the best book of its type and can be unreservedly recommended to organic chemists who have an interest in using hydrolytic enzymes in synthesis."" (Nicholas J. Turner, University of Edinburgh)""The book is an indispensable source of information on the use of hydrolases in organic synthesis. The subject matter is very well set out, and the chapter

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Altri autori (Persone)	Noble, Jim.author
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Soggetti	Computer security - Computer programs Firewalls (Computer security) Computer networks - Security measures - Computer programs Electronic books.
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Sommario/riassunto	Check Point Software Technologies is the worldwide leader in securing the Internet. The company's Secure Virtual Network (SVN) architecture provides the infrastructure that enables secure and reliable Internet communications. Check Point recently announced a ground-breaking user interface that meets the industry's next generation Internet security requirements, including simplified security management for increasingly complex environments. Built upon Check Point's Secure Virtual Network (SVN) architecture, the Next Generation User Interface revolutionizes the way security administrators define and manage enterprise security by further integrating management functions into a security dashboard and creating a visual picture of security operations. The Next Generation User Interface delivers unparalleled ease-of-use, improved security and true end-to-end security management. Check Point's revenues have more than doubled in each of the last two years, while capturing over 50% of the VPN market and over 40% of the firewall market according to IDC Research. The explosive growth of the company is further evidenced by over 29,000 IT professionals becoming Check Point Certified so far. This book will be the

complimentary to Syngress' best-selling Check Point Next Generation Security Administration, which was a foundation-level guide to installing and configuring Check Point NG. This book will assume that readers have already mastered the basic functions of the product and they now want to master the more advanced security and VPN features of the product. Written by a team of Check Point Certified Instructors (the most prestigious Check Point certification) this book will provide readers with a complete reference book to Check Point NG and advanced case studies that illustrate the most difficult to implement configurations. Although not a Study Guide, this book will cover all of the objectives on Check Point's CCSE Exam. The reader will learn to design and configure a Virtual Private Network (VPN). The reader will learn to configure Check Point NG for High Availability (HA), which is the ability of a system to perform its function continuously (without interruption) for a significantly longer period of time than the reliabilities of its individual components would suggest. The reader will learn to use SeucureUpdate, which allows them to perform simultaneous, secure, enterprise-wide software updates.