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| Nota di contenuto       | Practical Methods for Biocatalysis and Biotransformations 3; Contents;<br>List of Contributors; Abbreviations; Chapter 1: Considerations for the<br>Application of Process Technologies in Laboratory- and Pilot-Scale<br>Biocatalysis for Chemical Synthesis; 1.1 Introduction; 1.2 Process<br>Intensification and Proposed Scale-Up Concept; 1.3 Enabling<br>Technologies; 1.3.1 Biocatalyst Immobilization; 1.3.1.1 General<br>Considerations for Implementation; 1.3.1.2 Carrier-Bound Supported<br>Enzymes; 1.3.1.2.1 Adsorption; Considerations for Implementation;<br>1.3.1.2.2 Covalent Binding; Considerations for Implementation<br>1.3.1.2.3 Ionic BindingConsiderations for Implementation; 1.3.1.3<br>Carrier-Free Immobilization; 1.3.1.3.1 Cross-Linked Enzyme<br>Aggregates (CLEAsTM); Considerations for Implementation; 1.3.2<br>Reactor Options; 1.3.2.1 Ideal Reactors; 1.3.2.2 Modes of Operation;<br>1.3.2.3 Well-Mixed Reactor Hydrodynamics; 1.3.2.3.1 Stirred Tanks; |

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