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## Applied Biocatalysis

By Hilterhaus, Lutz / Liese, Andreas

Condition: New. Publisher/Verlag: Wiley-VCH | From Fundamental Science to Industrial Applications | This reference book originates from the interdisciplinary research cooperation between academia and industry. In three distinct parts, latest results from basic research on stable enzymes are explained and brought into context with possible industrial applications. Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts. Application of "extreme" reaction conditions (i.e. unconventional, such as high temperature, pressure, and pH value) - biocatalysts are normally used within a well defined process window - leads to novel synthetic effects. Both novel enzyme systems and the synthetic routes in which they can be applied are made accessible to the reader. In addition, the complementary innovative process technology under unconventional conditions is highlighted by latest examples from biotech industry. | FERMENTATION & DOWNSTREAM PROCESSING TECHNOLOGIES Process development tools for fermentations under extreme conditions (ProTool) Development of fully automated integrated bioprocesses in an industrial compatible pilot plant for the production of heterologous enzymes in yeast Application of tailor made porous adsorbents in enzymatic processes In-situ video microscopy for investigation and optimization of protein crystallization in downstream processing Innovative plasma technology for enzyme immobilization New membrane adsorber technology for downstream...



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