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## Enzyme Engineering Text

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fine-tune the enzymes. It is a technique by which the stability, activity, and specificity of the enzymes can be altered. The characteristic properties of an enzyme can be amended by immobilization and protein engineering. Among them, protein engineering is the most promising, as in addition to amending the stability and activity, it is the only way to modulate the specificity and stereoselectivity of enzymes.

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Enzyme engineering. Enzyme engineering is the application of modifying an enzyme's structure (and, thus, its function) or modifying the catalytic activity of isolated enzymes to produce new metabolites, to

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allow new (catalyzed) pathways for reactions to occur, or to convert from some certain compounds into others (biotransformation). These products are useful as chemicals, pharmaceuticals, fuel, food, or agricultural additives.

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construction -- Capital cost estimating -- Estimating  
revenues and production costs -- Economic evaluation  
of projects -- Safety and loss prevention -- General  
site considerations -- Optimization in design -- Part II:  
Plant design -- Equipment selection, specification and  
design -- Design of pressure vessels -- Design of  
reactors and mixers -- Separation of fluids --  
Separation columns (distillation, absorption and  
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of enzymes in industry, be it food, textile or pharmaceutical. Thus, the book offers a balanced insight into the immense world of enzymes in a single readable volume. HIGHLIGHTS OF THE BOOK □ Inclusion of a chapter on Enzyme Engineering and Technology makes the book more future-oriented, highlighting the wonders that the modern science can make. □ The textual presentation is very lucid, illustrative and organised in a manner that it is not based solely on the complexity of the subject but also on its usefulness. □ Adequate number of references, listing of literature for further reading and problems (both multiple choice and thought based) given at the end of each chapter make the book an ideal tool for

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In the nearly 10 years since the publication of the bestselling first edition of Introduction to Green Chemistry, interest in green chemistry and clean processes has grown so much that topics, such as fluororous biphasic catalysis, metal organic frameworks, and process intensification, barely mentioned in the first edition, have become major areas of research. In addition, government funding has ramped up the

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development of fuel cells and biofuels. It reflects the evolving focus from pollution remediation to pollution prevention. Copiously illustrated with over 800 figures, this second edition provides an update from the frontiers of the field. New and expanded research topics: Metal-organic frameworks Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro- and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale Updated and expanded current events topics: Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines

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book covers traditional green chemistry topics,  
including catalysis, benign solvents, and alternative  
feedstocks. It also discusses relevant but less  
frequently covered topics with chapters such as  
Chemistry of Longer Wear and Population and the  
Environment. This coverage highlights the importance  
of chemistry to everyday life and demonstrates the  
benefits the expanded exploitation of green chemistry  
can have for society.

A comprehensive reference, drawing on the expertise

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of international leaders in the field, this text covers everything from epidemiology, pathology, and diagnosis to the treatment of both superficial and invasive bladder cancers . The book contains over 300 to quality illustrations.

As the global population lives to an increasing older age, there is a need to research, develop and deliver appropriate anaesthesia and pain management care to these increasingly frail and vulnerable patients. This book provides a comprehensive and detailed overview of all aspects of anaesthesia for the elderly

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patient looking at the effect of ageing on the systems of the body and the role that age has on drug mechanisms. Designed for both consultants and trainees who care for elderly patients, chapters address the clinical management of the older patient in pain, trauma, intensive care as well as anaesthesia for all aspects of surgery. The expert author team use their experience to provide a practical and stimulating book which informs everyday clinical activity and explores the unanswered questions which face anaesthetists in this changing patient population. This book will give all consultants and trainees a thorough grounding in this growing and demanding area of anaesthetic practice.

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An authoritative, comprehensive, and accessible cardiology textbook that caters to the needs of trainees and practicing cardiologists. Cardiovascular disease is now the largest contributor to global mortality. Low and middle income countries. (Lmics) presently bear the brunt of this global epidemic, accounting for over three quarters of cardiovascular deaths and 90% of these deaths under 70 years of age. The experience and expertise of health professionals in these countries will therefore be the principal determinant of global success in countering

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and curbing the global cardiovascular epidemic in the coming decades. This book covers the fundamentals of cardiology in depth, to provide conceptual clarity, and delves into specific cardiovascular disorders with detailed descriptions that range from aetiology and pathophysiology to evidence informed approaches to diagnosis and management. It does all of this by blending contextual relevance with uncompromising academic rigor.

Biochemistry provides a platform for convergence of all scientific knowledge about the operation of life and, therefore, it finds an important place in the curriculum of all the medical sciences. The present

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book is an attempt in this direction in the form of a student-friendly, yet comprehensive and up-to-date text.

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