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Sommario/riassunto

This book provides an overview of recent research in the area of advanced materials for improving human healthcare, protecting the environment and alternative energy resources. The authors analyze and deliver viable technical solutions, demonstrating how chemistry and engineering can collectively solve technical and societal challenges. The book explores innovative technology for the synthesis of complex carbohydrates & glycoproteins, new drug development & delivery, theragnostics of infectious disease and cancer. It also provides insights into the nature of energy extraction, management and usage related to fossil fuels and sustainable energy. The book brings together a group of dynamic and productive scientists, engineers, and other professionals in celebration of the 40th Anniversary of Chinese American Chemical Society. It is a valuable resource for all readers interested in the study of materials to address society's increasing need for electrical and chemical energy.