This comprehensive, six-volume set describes the broad technical universe of γ- and ε- lactams, reviewing in-depth the chemistry of the small lactam-based molecules, uncovering their unique properties and showing how they have enabled a myriad of commercially important applications. From synthesis, through production and into applications, this extensive work targets significant and recent trends in γ- and ε-lactam science and technology and addresses all key aspects of pyrrolidone- and caprolactam-based materials to produce a definitive overview of the field.

Handbook of Pyrrolidone and Caprolactam Based Materials: Synthesis, Characterization and Industrial Applications provides a detailed and modern portrait of the impact of pyrrolidone- and caprolactam-based materials on the world, as well as potential future possibilities.

Handbook of Pyrrolidone and Caprolactam Based Materials will appeal to industrial scientists and engineers interested in polymer development and manufacturing. It will also benefit academic researchers working in the fields of chemistry, materials science, and chemical and process engineering.

ABOUT THE EDITOR

Osama M. Musa, PhD, is Senior Vice President and Chief Technology Officer for Ashland Global Holdings. He is known as a strategic R&D leader with a broad experience in the specialty chemicals business sector. During his tenure at Ashland, he has led Research and Development efforts across all business segments and technical platforms, including consumer markets focused on pharmaceutical, nutraceutical, personal care, home care, nutrition and agricultural as well as industrial markets focused on coatings, adhesives, and performance additives for energy, construction, and lithium ion battery markets. He disposes of a wide-ranging network, cooperating with partners both in the industry and in academia.