



# Handbook of Industrial Chemistry and Biotechnology

By James A. Kent (Ed.)

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**Handbook of Industrial Chemistry and Biotechnology** By James A. Kent (Ed.)

Substantially revising and updating the classic reference in the field, this handbook offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors, but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry (specifically, biomass conversion), Practical Catalysis, and Environmental Measurements; as well as expanded treatment of Safety, chemistry plant security, and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review, and modification. Important topics in the energy field, namely nuclear, coal, natural gas, and petroleum, are covered in individual chapters.

Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins.

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### **Editorial Review**

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#### **About the Author**

James A. Kent has extensive experience as a chemical engineer and engineering educator. He most recently served as Chrysler Professor and Dean of Engineering and Science at the University of Detroit Mercy and, prior to that, he was Professor and Dean of Engineering at Michigan Technological University, and Professor of Chemical Engineering and Associate Dean for Research and Graduate Studies at West Virginia University. Dr. Kent's industry experience included assignments as Research Engineer and Research Group Leader at Dow Chemical Company and Monsanto. He also served as editor of the sixth through ninth editions of the Handbook.

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